3-1109

### STIC-Biotech/ChemLib

From:

Mertz, Prema

Sent:

Wednesday, March 31, 1999 2:27 PM

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Subject:

08/927,939

Please search SEQ ID NO:1, 7-14 with protein databases.

Thanks Prema Mertz Art Unit 1646 #308-4229 Rm 10E-01 STIC-Biotech/ChemLib

3-1028

From:

Mertz, Prema

Sent:

Monday, March 29, 1999 5:09 PM

To:

STIC-Biotech/ChemLib

Subject:

08/927939

Please search SEQ ID NO:1 with protein databases.

Thanks Prema Mertz Art Unit 1646 Rm 10E-01 # 308-4229

> Point of Contact: Beverly Shears Technical Info. Specialist CM1 12C14 Tel: 308-4994

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FILE 'REGISTRY' ENTERED AT 11:59:10 ON 31 MAR 1999
             16 S EICADPKQKWVQ/SQSP
L1
     FILE 'CAPLUS' ENTERED AT 11:59:36 ON 31 MAR 1999
             18 S L1
L2
=> d 1-18 .bevstr; sel hit l2 1-18 rn
     ANSWER 1 OF 18 CAPLUS COPYRIGHT 1999 ACS
L2
     1999:96361 CAPLUS
AN
DN
     130:167179
     Analogs of monocyte chemoattractant protein MCP-1
ΤI
     Barratt, Derek Graham; Needham, Maurice Ronald Charles
IN
     Zeneca Limited, UK
PA
     PCT Int. Appl., 49 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
                                           APPLICATION NO.
                                                            DATE
     PATENT NO.
                      KIND
                            DATE
                                           _____
                                           WO 98-GB2179
                                                            19980721
PΤ
     WO 9905279
                       A1
                            19990204
            AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP,
             KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
             TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG,
             KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI GB 97-15659
                      19970725
     GB 97-15661
                      19970725
                      19970725
     GB 97-15663
     This invention relates to novel analogs of monocyte chemoattractant
AB
     protein-1 (MCP-1) having substitution of an alanine, glycine, or
     threonine for the natural valine in position 9 of MCP1(9-76).
     analogs tested have a similar potency in receptor-binding, monocytic
     chemotaxis, and calcium flux. Corresponding polynucleotide
     sequences, vectors, host cells and recombinant expression,
     particularly in Escherichia coli, are also provided.
     188627-69-2DP, 9-76-Monocyte chemoattractant protein-1
IT
     (human), analogs 220382-62-7DP, analogs
     220382-68-3DP, analogs 220382-73-0DP, analogs
     RL: BAC (Biological activity or effector, except adverse); BPN
     (Biosynthetic preparation); PRP (Properties); BIOL (Biological
     study); PREP (Preparation)
        (amino acid sequence; analogs of monocyte chemoattractant protein
        MCP-1)
                              Searcher : Shears
                                                    308-4994
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ANSWER 2 OF 18 CAPLUS COPYRIGHT 1999 ACS L21997:267097 CAPLUS ΑN DN 126:246815 Monocyte chemoattractant protein MCP-1 N-terminally truncated ΤI analogs bind by MCP-1 receptors without activating them and are useful inflammation inhibitors Lewis, Ian-Clark; Gong, Jiang-Hong IN Lewis, Ian-Clark, Can.; Gong, Jiang-Hong PA Can. Pat. Appl., 27 pp. so CODEN: CPXXEB Patent DT English LA FAN.CNT 1 KIND DATE APPLICATION NO. PATENT NO. ----\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_ AΑ 19961220 CA 95-2152141 19950619 PΙ CA 2152141 N-terminally truncated MCP-1 analogs that function as MCP-1 AΒ antagonists are disclosed. The MCP-1 antagonist analogs may be used to inhibit MCP-1 activity and binding of MCP-1 to MCP-1 receptors. The analogs may be used in pharmaceutical prepns. as anti-inflammatory agents. In particular, 8-76- and 9-76-MCP-1 analogs are included. 188627-69-2 188627-71-6 IT RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (amino acid sequence; monocyte chemoattractant protein MCP-1 N-terminally truncated analogs bind by MCP-1 receptors without activating them and are useful inflammation inhibitors) L2 ANSWER 3 OF 18 CAPLUS COPYRIGHT 1999 ACS 1997:144129 CAPLUS AN 126:210456 DN Induction of monocyte chemoattractant protein-1 in the small veins ΤI of the ischemic and reperfused canine myocardium Kumar, Ajith G.; Ballantyne, Christie M.; Michael, Lloyd H.; ΑU Kukielka, Gilbert L.; Youker, Keith A.; Lindsey, Merry L.; Hawkins, Hal K.; Birdsall, Holly H.; Mackay, Charles R.; et al. Section of Cardiovascular Sciences, DeBakey Heart Center, Department CS of Medicine, Methodist Hospital, Houston, TX, USA Circulation (1997), 95(3), 693-700 SO CODEN: CIRCAZ; ISSN: 0009-7322 PB American Heart Association Journal DT English LA Healing after myocardial infarction is characterized by the presence AΒ of macrophages in the infarcted area. Since augmented monocyte influx has been implicated as a potential mechanism for improved

Searcher : Shears

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healing after reperfusion, the authors wished to study the induction of monocyte chemoattractant protein-1 (MCP-1) during reperfusion. The cDNA for MCP-1 was cloned from a canine jugular vein endothelial cell (CJVEC) library and exhibited 78% identity with the deduced amino acid sequence of human MCP-1. Samples of myocardium were taken from control and ischemic segments after 1 h of ischemia and various times of reperfusion; total RNA was isolated from myocardial samples and probed with a cDNA probe for canine MCP-1. Induction of MCP-1 mRNA occurred only in previously ischemic segments within the first hour of reperfusion, peaked at 3 h, and persisted throughout the first 2 days of reperfusion. In the absence of reperfusion, no significant MCP-1 induction was seen. Both ischemic (but not preischemic) cardiac lymph and human recombinant TNF-.alpha. induced MCP-1 in CJVECs. MCP-1 was identified by immunostaining on infiltrating cells and venular (but not arterial) endothelium by 3 In contrast, in situ hybridization showed MCP-1 mRNA to be confined to the endothelium of small veins (venules) 10 to 70 .mu.m in diam. MCP-1 mRNA is induced in the endothelium of a specific class of small veins immediately after reperfusion. MCP-1 induction is confined to the previously ischemic area that has been reperfused. The authors suggest a significant role for MCP-1 in monocyte trafficking in the reperfused myocardium.

IT 188044-57-7

RL: PRP (Properties)

(amino acid sequence; monocyte chemoattractant protein-1 cDNA sequence and induction in small veins of ischemic and reperfused canine myocardium in relation to monocyte influx in wound healing after myocardial infarction)

- L2 ANSWER 4 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1996:141358 CAPLUS
- DN 124:290261
- TI The total chemical synthesis of monocyte chemotactic protein-1 (MCP-1)
- AU Brown, Angus R.; Covington, Maryanne; Newton, Robert C.; Ramage, Robert; Welch, Patricia
- CS Dep. Chemistry, Univ. Edinburgh, Edinburgh, UK
- SO J. Pept. Sci. (1996), 2(1), 40-6 CODEN: JPSIEI; ISSN: 1075-2617
- DT Journal
- LA English

GΙ

Ι

The affinity-based N.alpha.-amino protecting group tetrabenzo[a,c,g,i]fluorenyl-17-methoxycarbonyl (Tbfmoc) (I) has been utilized as a hydrophobic probe to allow the simple, quick and highly effective isolation of a 76 residue cysteine-contg. protein (MCP-1). The base-labile Tbfmoc group can be removed under very mild conditions, which preserve the thiol-contg. protein in the reduced state. Oxidative folding was then used to furnish the biol. active .beta.-chemokine MCP-1.

IT 175644-97-0P, Lymphokine MCP 1 (human)

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) ((tetrabenzofluorenyl)methoxycarbonyl protective group in solid-phase prepn. of monocyte chemotactic protein-1)

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L2 ANSWER 5 OF 18 CAPLUS COPYRIGHT 1999 ACS
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AN 1995:559968 CAPLUS

DN 122:282234

TI Remedy for wound

IN Matsushima, Koji; Naruto, Masanobu

PA Toray Industries, Inc., Japan

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND DATE	APPLICATION NO.	DATE
PΙ	WO 9507710	A1 19950323	WO 94-JP1512	19940913
	W: CA, JP,	, US		
	RW: AT, BE,	, CH, DE, DK, ES, H	FR, GB, GR, IE, IT, LU,	, MC, NL, PT,
	SE			
	JP 07082169	A2 19950328	JP 93-227385	19930913
	CA 2149323	AA 19950323	CA 94-2149323	19940913
	EP 669134	A1 19950830	EP 94-926392	19940913
	R: DE, FR,	, GB, IT		
	US 5646117	A 19970708	US 95-433519	19950712
		Searchei	r : Shears 308-4994	4

```
PRAI JP 93-227385
                     19930913
     WO 94-JP1512
                     19940913
     A remedy for wound healing is different from growth factors and
AB
     growth factor-inducing proteins in property and effect and has a
     potent therapeutic effect. It contains as the active ingredient a
     monocyte chemotactic factor or monocyte chemotactic variant or
     deriv. thereof.
     124147-31-5, Lymphokine MCP 1 (human protein moiety reduced)
IT
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (monocyte chemoattractant protein-1 as remedy for wound healing)
     ANSWER 6 OF 18 CAPLUS COPYRIGHT 1999 ACS
L2
     1995:557253 CAPLUS
ΑN
DN
     123:984
     Use of heparanase to identify and isolate anti-heparanase compound
ΤI
    Hoogwerf, Arlene J.; Ledbetter, Steven R.
IN
     Upjohn Co., USA
PA
SO
     PCT Int. Appl., 60 pp.
     CODEN: PIXXD2
DT
     Patent
    English
LΑ
FAN.CNT 1
                                          APPLICATION NO. DATE
                     KIND DATE
     PATENT NO.
                                           _____
     _____
                                          WO 94-US8207
                                                           19940726
ΡI
     WO 9504158
                      A1 19950209
         W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI,
            GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG,
            MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT,
            UA, US, UZ, VN
         RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU,
            MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
            SN, TD, TG
                           19950228
                                          AU 94-73689
                                                           19940726
     AU 9473689
                      A1
                                          EP 94-922654
                           19960501
                                                           19940726
     EP 708838
                      A1
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL,
             PT, SE
                            19970506
                                          JP 94-505884
                                                           19940726
     JP 09504422
                      T2
PRAI US 93-99866
                     19930729
                     19931013
    US 93-136117
     WO 94-US8207
                     19940726
     Purified heparanase having activity of greater than 20 units/.mu.g
AB
     protein, preferably greater than 50 units heparanase activity per
     .mu.g protein, is described. The use of heparanase for screening
     for anti-heparanase compds. is also described. In addn., the use of
     the high potency heparanase to accelerate wound healing or its use
     as an immobilized heparanase filter connected to extracorporeal
     devices to degrade heparin and neutralize its anticoagulant
```

Searcher : Shears

308-4994

properties during surgery is disclosed.

### IT 163548-47-8

RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (heparanase filter connection to extracorporeal device to degrade heparin and neutralize anticoagulation during surgery)

- L2 ANSWER 7 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1995:12116 CAPLUS
- DN 122:26110
- TI The PCR, cloning, and sequencing of human monocyte chemoattractant protein-1 (MCP-1) gene
- AU Ye, Qinong; Su, Guofu; Yuan, Yi; Huang, Cuifan
- CS Inst. Biotechnol., Acad. military medical sciences, Beijing, 100850, Peop. Rep. China
- SO Zhonghua Weishengwuxue He Mianyixue Zazhi (1994), 14(1), 29-32 CODEN: ZWMZDP; ISSN: 0254-5101
- DT Journal
- LA Chinese
- The peripheral blood mononuclear cells (PBMCs, including monocytes and lymphocytes) from a healthy man were stimulated by PHA. The total RNA was isolated from monocytes, and used in a reverse transcription reaction to synthesize a first strand cDNA which was used as a template in PCR. The dscDNA encoding MCP-1 was obtained by PCR and digested with EcoRI and BamHI. The 280 bp DNA fragment encoding MCP-1 was recovered from agarose gel, and then inserted into the pUC19 plasmid digested with EcoRI and BamHI. The DNA fragment was sequenced. The results indicated that the encoding sequence of the twelveth amino ácid was different from that reported abroad. TGT was replaced by TGC in the authors expt., but they encoded the same amino acid, namely cysteine. The other encoding sequences were identical to those reported previously. This suggests that the genotype of MCP-1 may be polymorphous.
- IT 124147-31-5, Lymphokine MCP 1 (human protein moiety reduced)
  RL: PRP (Properties)

(amino acid sequence; PCR, cloning, and sequence of human monocyte chemoattractant protein-1 (MCP-1) cDNA)

- L2 ANSWER 8 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1994:131889 CAPLUS
- DN 120:131889
- TI The expression of monocyte chemotactic protein (MCP-1) in human vascular endothelium in vitro and in vivo
- AU Li, Yi Shuan; Shyy, Yeun Jund; Wright, James G.; Valente, Anthony J.; Cornhill, J. Fredrick; Kolattukudy, P. E.
- CS Ohio State Biotechnol. Cent., Ohio State Univ., Columbus, OH, 43210,
- SO Mol. Cell. Biochem. (1993), 126(1), 61-8 CODEN: MCBIB8; ISSN: 0300-8177
- DT Journal

LA English

A monocyte chemotactic protein (MCP-1) is thought to play a major AB role in recruiting monocytes to the vascular endothelium where the adherence of monocytes is one of the earliest events in atherogenesis. The authors cloned MCP-1 cDNA from a .lambda.gtll cDNA library constructed from human aortic endothelial mRNA to test whether MCP-1 expressed in arterial endothelium is identical to those from other sources. A .apprx.670 MCP-1 cDNA clone was identified and showed the identical sequence with the ones from other cell lines. Northern blot anal. using this cloned MCP-1 cDNA as probe revealed two hybridizing bands of RNA at 0.68 and 0.77 kb in human aortic, human pulmonary arterial, and human umbilical vein endothelial cell cultures. Primer extension anal. showed that the difference in size (.apprx.90 bp) between the two transcripts is not due to a difference at the 5'-noncoding region. The amt. of MCP-1 transcripts increased dramatically in aortic endothelial cells when stimulated with recombinant IL-1.alpha. (100 units/mL), IL-1.beta. (100 units/mL), or TNF-.alpha. (200 ng/mL). Northern blot and slot blot anal. of RNA isolated from both the endothelium and the underlying vessel wall of freshly removed human arteries and veins showed MCP-1 transcripts. This observation demonstrates for the first time that MCP-1 is expressed not only in atherosclerotic human arteries but also in symptom free arteries and veins in vivo.

IT 124147-40-6, Moncyte chemotactic protein (human aortic endothelium MCP-1)

RL: PRP (Properties)

(amino acid sequence of)

- L2 ANSWER 9 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1993:488360 CAPLUS
- DN 119:88360
- TI Cloning and expression of cDNA for human JE cytokine for recombinant manufacture of the JE cytokine
- IN Rollins, Barrett; Stiles, Charles; Wong, Gordon G.
- PA Genetics Institute, Inc., USA; Dana Farber Cancer Institute
- SO U.S., 7 pp.
  CODEN: USXXAM
- DT Patent
- LA English

FAN.CNT 2

		PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
1	ΡI	US 5212073	A	19930518	US 89-351008	19890512
		US 5179078	Α	19930112	US 91-701515	19910516
		US 5278287	A	19940111	US 93-46243	19930413
]	PRAI	US 89-351008	19890	512		

AB The cDNA for human macrophage inflammatory protein 1-related cytokine JE (I) and its expression in bacterial or mammalian cells are claimed. I is useful for stimulating immune responsiveness and Searcher: Shears 308-4994

wound healing. The cDNA for I was cloned from a human fibroblast cell line WI-38 cDNA library. The cDNA encodes a 99-residue protein, the 1st 29 amino acids of which have the characteristics of a signal peptide. COS cells contg. expression plasmid pMX-JE produced a heterogeneous mixt. of I with mol. wt. 15,000 to 18,000.

IT 124147-40-6, Lymphokine MCP 1 (human precursor protein moiety reduced)

RL: BIOL (Biological study)

(amino acid sequence of and expression in COS cells of cDNA for)

- L2 ANSWER 10 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1993:122995 CAPLUS
- DN 118:122995
- TI Manufacture of a monocyte chemotactic factor by expression of the cloned gene
- IN Yamagishi, Junichi; Matsuo, Noriyuki; Fukui, Toshikazu; Yamada, Masaaki
- PA Dainippon Pharmaceutical Co., Ltd., Japan
- SO PCT Int. Appl., 56 pp. CODEN: PIXXD2
- DT Patent
- LA English

FAN.CNT 1

	PA	CENT :	NO.		KI	ND	DATE			A)	PPLI	CATI	ON N	0.	DATE	
										-						
ΡI	WO	9219	737		A	1	1992	1112		M	92	-JP5	50		1992	0427
		W:	CA,	KR,	US											
		RW:	ΑT,	BE,	CH,	DE	DK,	ES,	FR,	GB,	GR,	IT,	LU,	MC,	, NL,	SE
	JP	0526	0987		A:	2	1993	1012		J:	P 92	-136	213		1992	0428
	CN	1066	470		Α		1992	1125		CI	N 92	-103	461		1992	0509

PRAI JP 91-135950 19910509

- AB Monocyte chemotactic factor is manufd. by expression of a cloned cDNA in Escherichia coli where it accumulates as inclusion bodies. A cDNA for monocyte chemotactic factor was placed under control of the trp operon promoter and introduced into E. coli where expression was induced in a complete medium with 3-indole acrylic acid. The protein was recovered from lysates as inclusion bodies making up .gtoreq.20% of the insol. protein of the cells. The initiator Met of these proteins was only rarely removed.
- 1T 124147-40-6, Lymphokine MCP 1 (human precursor protein moiety reduced)

RL: PRP (Properties)

(amino acid sequence of, complete, and expression in Escherichia coli of cDNA for)

IT 124147-31-5DP, Lymphokine MCP 1 (human protein moiety
reduced), N-terminal deletion analogs 124147-31-5P,
Lymphokine MCP 1 (human protein moiety reduced) 146413-96-9P
RL: PREP (Preparation)

(manuf. in Escherichia coli of)

1.2

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ANSWER 11 OF 18 CAPLUS COPYRIGHT 1999 ACS
     1991:576698 CAPLUS
AN
DN
     115:176698
     cDNA cloning and expression of genes for alleles and analogs of
ΤI
     monocyte chemotactic factor
     Furutani, Yasuji; Fukui, Toshikazu; Junichi, Yamagishi; Masaaki,
IN
     Yamada; Matsushima, Kouji; Oppenheim, Joost
     United States Dept. of Commerce, USA
PA
     PCT Int. Appl., 27 pp.
SO
     CODEN: PIXXD2
DT
     Patent
    English
LΑ
FAN.CNT 1
     PATENT NO.
                     KIND
                           DATE
                                           APPLICATION NO.
                                                           DATE
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     _____
                            -----
                                           ______
                            19900726
                                           WO 90-US40
                                                            19900102
                      A1
PΙ
     WO 9007863
        W: AU, ES, JP
         RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE
     JP 03187380
                      A2
                           19910815
                                           JP 89-65
                                                            19890101
                                           JP 89-26438
                                                            19890203
     JP 02207788
                      A2
                            19900817
                                          CA 90-2006969
                                                            19900102
     CA 2006969
                      AA
                          19900701
                                                           19900102
                                          AU 90-48450
    AU 9048450
                     A1
                          19900813
                           19931021
    AU 642399
                      B2
     EP 452391
                     A1
                           19911023
                                          EP 90-901711
                                                           19900102
                      В1
                           19970716
     EP 452391
        R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE
                      T2
                                           JP 90-502276
                                                           19900102
                          19920409
     JP 04501961
                                          ES 90-50005
                                                           19900102
     ES 2056753
                      A6
                            19941001
    AT 155526
                      E
                           19970815
                                          AT 90-901711
                                                           19900102
    ES 2104600
                      Т3
                           19971016
                                          ES 90-901711
                                                           19900102
                     19890101
PRAI JP 89-65
     JP 89-26438
                      19890203
                      19890203
     JP 89-126438
     WO 90-US40
                      19900102
     CDNAs for allelic forms of human monocyte chemotactic factor (MCF)
AB
     are cloned and expressed in Escherichia coli. The cDNA was cloned
     from a cDNA bank from a human promyelocytic leukemia cell line HL-60
     using amino acid sequence-derived probes. Two alleles with a change
     at one amino acid residue were found. The cDNAs for the precursor
     and several forms of the protein with residues removed from the
     amino terminal region that had not lost MCF activity are manufd. and
     expressed in E. coli from the trp promoter.
     124147-31-5, Lymphokine MCP 1 (human protein moiety reduced)
IT
     124147-40-6, Lymphokine MCP 1 (human precursor protein
     moiety reduced) 132023-87-1, 7-76-Lymphokine MCP 1 (human
     protein moiety reduced) 132023-88-2, 4-76-Lymphokine MCP 1
     (human protein moiety reduced) 132083-92-2,
     11-76-Lymphokine MCP 1 (human protein moiety reduced)
                             Searcher: Shears 308-4994
```

RL: BIOL (Biological study); PRP (Properties) (amino acid sequence of and cloning and expression in Escherichia coli of cDNA for)

IT 124147-31-5D, Lymphokine MCP 1 (human protein moiety reduced), amino-terminal 1-10 amino acids deletion derivs. RL: PRP (Properties)

(gene for, expression in Escherichia coli of)

- L2 ANSWER 12 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1991:21643 CAPLUS
- DN 114:21643
- TI A chemoattractant expressed in human sarcoma cells (tumor-derived chemotactic factor, TDCF) is identical to monocyte chemoattractant protein-1/monocyte chemotactic and activating factor (MCP-1/MCAF)
- AU Bottazzi, Barbara; Colotta, Francesco; Sica, Antonio; Nobili, Nadia; Mantovani, Alberto
- CS Ist. Ric. Farmacol. Mario Negri, Milan, 20157, Italy
- SO Int. J. Cancer (1990), 45(4), 795-7 CODEN: IJCNAW; ISSN: 0020-7136
- DT Journal
- LA English
- The complete nucleotide sequence and deduced amino acid sequence for TDCF cDNA from the prototypic TDCF-producing human 8387 sarcoma cell line were obtained. Comparison of the nucleotide sequence with that of MCP-1/MCAF disclosed that TDCF and MCP-1/MCAF are identical.
- IT 124147-40-6, Lymphokine MCP 1 (human precursor protein moiety reduced)

RL: PRP (Properties)

(amino acid sequence of)

- L2 ANSWER 13 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1990:585693 CAPLUS
- DN 113:185693
- TI Structure of human monocyte chemotactic protein gene and its regulation by TPA
- AU Shyy, Yeun Jund; Li, Yi Shuan; Kolattukudy, P. E.
- CS Ohio State Biotechnol. Cent., Ohio State Univ., Columbus, OH, 43210, USA
- SO Biochem. Biophys. Res. Commun. (1990), 169(2), 346-51 CODEN: BBRCA9; ISSN: 0006-291X
- DT Journal
- LA English
- AB Monocyte chemotactic protein released by endothelium plays an important role in inflammation, immune reactions, and probably in atherogenesis. To elucidate the regulation of synthesis of this protein, the human gene encoding its synthesis was cloned and its nucleotide sequence was detd. This gene is composed of 3 exons of 145, 118, and 478 bp in length with 2 introns of 800 and 385 bp in length. Phorbol ester responsive elements (TRE) were found 129 and Searcher: Shears 308-4994

157 bp upstream from the translation initiation site and the phorbol ester treatment of endothelial cell cultures elevated the transcript level of this gene.

IT 124147-40-6, Lymphokine MCP 1 (human precursor protein
moiety reduced)

RL: PRP (Properties)

(amino acid sequence of)

L2 ANSWER 14 OF 18 CAPLUS COPYRIGHT 1999 ACS

AN 1990:401553 CAPLUS

DN 113:1553

TI Monocyte-attracting peptides: purification, characterization, and cDNA cloning

IN Yoshimura, T.; Robinson, E. A.; Appella, E.; Leonard, E. J.

PA United States Dept. of Health and Human Services, USA

SO U. S. Pat. Appl., 67 pp. Avail. NTIS Order No. PAT-APPL-6-330 446. CODEN: XAXXAV

DT Patent

LA English

FAN.CNT 2

		_				
	PA	TENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US	330446	A0	19890715	US 89-330446	19890330
	CA	2006964	AA	19900731	CA 90-2006964	19900102
	WO	9008777	A1	19900809	WO 90-US39	19900102
		W: AU, ES,	JP			
		RW: AT, BE,	CH, DE	, DK, ES, FR,	GB, IT, LU, NL, SE	
	ΑU	9050480	A1	19900824	AU 90-50480	19900102
	US	5714578	Α	19980203	US 95-466280	19950606
PRAI	US	89-304234	19890	131		
	US	89-330446	19890	330		
	WO	90-US39	19900	102		

AB Peptides that act as attractants for monocytes are isolated and characterized from a human glioma cell line and human peripheral blood leukocytes and cDNA for the glioma attractants cloned. The peptides are useful in the treatment of infection and inflammatory disease and as neoplasm inhibitors. Purifn. of the protein was by dye-affinity chromatog. and HPLC and cDNA cloning was by std. methods using amino acid sequence-derived probes. Dose-response curves showed an optimal attractant concn. of 10-9M.

IT 124147-31-5, Lymphokine MCP 1 (human protein moiety reduced)
RL: PRP (Properties)

(amino acid sequence of)

IT 124147-40-6, Lymphokine MCP 1 (human precursor protein moiety reduced)

RL: PRP (Properties)

(amino acid sequence of and cloning in Escherichia coli of cDNA for)

- L2 ANSWER 15 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1990:176677 CAPLUS
- DN 112:176677
- TI Complete amino acid sequence of a human monocyte chemoattractant, a putative mediator of cellular immune reactions
- AU Robinson, Elizabeth A.; Yoshimura, Teizo; Leonard, Edward J.; Tanaka, Shuji; Griffin, Patrick R.; Shabanowitz, Jeffrey; Hunt, Donald F.; Appella, Ettore
- CS Lab. Cell Biol., Natl. Cancer Inst., Bethesda, MD, 20892, USA
- SO Proc. Natl. Acad. Sci. U. S. A. (1989), 86(6), 1850-4 CODEN: PNASA6; ISSN: 0027-8424
- DT Journal
- LA English
- In a study of the structural basis for leukocyte specificity of AB chemoattractants, the complete amino acid sequence of human glioma-derived monocyte chemotactic factor (GDCF-2), a peptide that attracts human monocytes but not neutrophils, was detd. The choice of a tumor cell product for anal. was dictated by its relative abundance and an amino acid compn. indistinguishable from that of lymphocyte-derived chemotactic factor (LDCF), the agonist thought to account for monocyte accumulation in cellular immune reactions. By a combination of Edman degrdn. and mass spectrometry, it was established that GDCF-2 comprises 76 amino acid residues, commencing at the N terminus with pyroglutamic acid. The peptide contains 4 half-cystines, at positions 11, 12, 36, and 52, which create a pair of loops, clustered at the disulfide bridges. The relative positions of the half-cystines are almost identical to those of monocyte-derived neutrophil chemotactic factor (MDNCF), a peptide of similar mass but with only 24% sequence identity to GDCF. Thus, GDCF and MDNCF have a similar gross secondary structure because of the loops formed by the clustered disulfides, and their different leukocyte specificities are most likely detd. by the large differences in primary sequence.
- 1T 126463-99-8, Lymphokine MCP 1 (human U-I05MG cell protein moiety) 126545-73-1, Lymphokine MCP 1 (human U-I05MG cell protein moiety reduced)

RL: PRP (Properties)

(amino acid sequence of)

- L2 ANSWER 16 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1990:71309 CAPLUS
- DN 112:71309
- TI The human homolog of the JE gene encodes a monocyte secretory protein
- AU Rollins, Barrett J.; Stier, Peter; Ernst, Timothy; Wong, Gordon G.
- CS Dana-Farber Cancer Inst., Harvard Med. Sch., Boston, MA, 02115, USA
- SO Mol. Cell. Biol. (1989), 9(11), 4687-95 CODEN: MCEBD4; ISSN: 0270-7306
- DT Journal

LA English

AB

The mouse fibroblast gene, JE, was one of the first platelet-derived growth factor-inducible genes to be described as such. The protein encoded by JE (mJE) is the prototype of a large family of secreted, cytokinelike glycoproteins, all of whose members are induced by a mitogenic or activation signal in monocytes, macrophages, and T lymphocytes; JE is the only member to have been identified in firbroblasts. The identification of a human homolog for murine JE, cloned from human fibroblasts, is reported here. The protein predicted by the coding sequence of human JE (hJE) is 55 amino acids shorter than mJE, and its sequence is identical to that of a purified monocyte chemoattractant. When expressed in COS cells, the human JE cDNA directed the secretion of N-glycosylated proteins of Mr 16,000 to 18,000 as well as proteins of Mr 15,500, 15,000, and 13,000. Antibodies raised against mJE recognized these hJE species, all of which were secreted by human fibroblasts. The hJE expression was stimulated in HL60 cells during phorbol myristate acetate-induced monocytoid differentiation. However, resting human monocytes constitutively secreted hJE; treatment with gamma interferon did not enhance hJE expression in monocytes, and treatment with phorbol myristate acetate or lipopolysaccharide inhibited its expression. Thus, human JE encodes yet another member of the large family of JE-related cytokinelike proteins, in this case a novel human monocyte and fibroblast secretory protein.

124147-31-5, Lymphokine MCP 1 (human protein moiety reduced)
124147-40-6, Lymphokine MCP 1 (human precursor protein
moiety reduced)

RL: PRP (Properties)

(amino acid sequence of)

- L2 ANSWER 17 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1990:17070 CAPLUS
- DN 112:17070
- TI Human monocyte chemoattractant protein-1 (MCP-1). Full-length cDNA cloning, expression in mitogen-stimulated blood mononuclear leukocytes, and sequence similarity to mouse competence gene JE
- AU Yoshimura, Teizo; Yuhki, Naoya; Moore, Stephen K.; Appella, Ettore; Lerman, Michael I.; Leonard, Edward J.
- CS Lab. Immunobiol., Natl. Cancer Inst., Frederick, MD, 21701, USA
- SO FEBS Lett. (1989), 244(2), 487-93 CODEN: FEBLAL; ISSN: 0014-5793
- DT Journal
- LA English
- AB A cDNA encoding human monocyte chemoattractant protein-1 (MCP-1), previously isolated from glioma cell line culture fluid, was analyzed. Screening of a cDNA library from total poly(A) RNA of glioma cell line U-105MG yielded a clone that coded for the entire MCP-1. Nucleotide sequence anal. and comparison with the amino acid sequence of purified MCP-1 showed that the cDNA clone comprises a Searcher: Shears 308-4994

53-nucleotide 5'-non-coding region, an open reading frame coding for a 99-residue protein of which the last 76 residues correspond exactly to pure MCP-1, and a 389-nucleotide 3'-untranslated region. The hydrophobicity of the first 23 residues is typical of a signal peptide. Southern blot anal. of human and animal genomic DNA showed that there is a single MCP-1 gene, which is conserved in several primates. MCP-1 mRNA was induced in human peripheral blood mononuclear leukocytes by PHA, LPS, and IL-1, but not by IL-2, TNF, or IFN-.gamma. Among proteins with similar sequences, the coding regions of MCP-1 and mouse JE show 68% identity. This suggests that MCP-1 is the human homolog of the mouse competence gene JE.

124147-31-5, Lymphokine MCP 1 (human protein moiety reduced)
124147-40-6, Lymphokine MCP 1 (human precursor protein
moiety reduced)

RL: PRP (Properties)

(amino acid sequence of)

- L2 ANSWER 18 OF 18 CAPLUS COPYRIGHT 1999 ACS
- AN 1990:17058 CAPLUS
- DN 112:17058
- TI Cloning and sequencing of the cDNA for human monocyte chemotactic and activating factor (MCAF)
- AU Furutani, Yasuji; Nomura, Hideki; Notake, Mitsue; Oyamada, Yoshihiro; Fukui, Toshikazu; Yamada, Masaaki; Larsen, Christian G.; Oppenheim, Joost J.; Matsushima, Koji
- CS Res. Lab., Dainippon Pharm. Co. Ltd., Suita, 564, Japan
- SO Biochem. Biophys. Res. Commun. (1989), 159(1), 249-55 CODEN: BBRCA9; ISSN: 0006-291X
- DT Journal
- LA English
- AB Some cDNA clones having a nucleotide sequence encoding a human monocyte chemotactic and activating factor (MCAF) were isolated and sequenced. The amino acid sequence deduced from the nucleotide sequence reveals the primary structure of the MCAF precursor to be composed of a putative signal peptide sequence of 23 amino acid residues and a mature MCAF sequence of 76 amino acid residues. The amino acid sequence of MACF showed 25-55% homol. with other members of an inducible cytokine family, including macrophage inflammatory protein and some putative polypeptide mediators known as JE, LD78 RANmTES, and TCA-3. This suggests that MCAF is a member of family of factors involved in immune and inflammatory responses.
- 124147-31-5, Lymphokine MCP 1 (human protein moiety reduced)
  124147-40-6, Lymphokine MCP 1 (human precursor protein
  moiety reduced)

RL: PRP (Properties)

(amino acid sequence of)

E23 THROUGH E38 ASSIGNED

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L4 ANSWER 1 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 220382-73-0 REGISTRY

CN 9-76-Monocyte chemoattractant protein-1 [9-threonine] (human) (9CI) (CA INDEX NAME)

CI MAN

SQL 68

SEQ 1 TTCCYNFTNR KISVQRLASY RRITSSKCPK EAVIFKTIVA KEICADPKQK

=======

51 WVQDSMDHLD KQTQTPKT

===

HITS AT: 42-53

REFERENCE 1: 130:167179

L4 ANSWER 2 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 220382-68-3 REGISTRY

CN 9-76-Monocyte chemoattractant protein-1 [9-alanine] (human) (9CI) (CA INDEX NAME)

CI MAN SQL 68

SEQ 1 ATCCYNFTNR KISVQRLASY RRITSSKCPK EAVIFKTIVA KEICADPKQK

======

51 WVQDSMDHLD KQTQTPKT

===

HITS AT: 42-53

REFERENCE 1: 130:167179

L4 ANSWER 3 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 220382-62-7 REGISTRY

CN 9-76-Monocyte chemoattractant protein-1 [9-glycine] (human) (9CI)

(CA INDEX NAME)

CI MAN

SOL 68

SEO 1 GTCCYNFTNR KISVQRLASY RRITSSKCPK EAVIFKTIVA KEICADPKQK

=======

51 WVQDSMDHLD KQTQTPKT

===

HITS AT: 42-53

REFERENCE 1: 130:167179

L4 ANSWER 4 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 188627-71-6 REGISTRY

CN 8-76-Monocyte chemoattractant protein-1 (human) (9CI) (CA INDEX

NAME)

CI MAN

SQL 69

SEQ 1 PVTCCYNFTN RKISVQRLAS YRRITSSKCP KEAVIFKTIV AKEICADPKQ

=======

51 KWVODSMDHL DKOTOTPKT

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HITS AT: 43-54

REFERENCE 1: 126:246815

L4 ANSWER 5 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 188627-69-2 REGISTRY

CN 9-76-Monocyte chemoattractant protein-1 (human) (9CI) (CA INDEX

NAME)

CI MAN

SQL 68

SEQ 1 VTCCYNFTNR KISVQRLASY RRITSSKCPK EAVIFKTIVA KEICADPKQK

51 WVQDSMDHLD KQTQTPKT === HITS AT: 42-53 REFERENCE 1: 130:167179 REFERENCE 2: 126:246815 ANSWER 6 OF 16 REGISTRY COPYRIGHT 1999 ACS L4188044-57-7 REGISTRY RN Monocyte chemoattractant protein-1 (Canis familiaris) (9CI) (CA CN INDEX NAME) OTHER NAMES: GenBank U29653-derived protein GI 1144186 CN Monocyte chemoattractant protein-1 (dog) CN CI MAN SOL 101 1 MKVSAALLCL LLIAAALTTQ VLTQPDAIIS PVTCCYTLTN KKISIQRLAS SEQ 51 YKRVTSSKCP KEAVIFKTVL NKEICADPKQ KWVQDSMAHL DKKSQTQTAK 101 P HITS AT: 73-84 REFERENCE 1: 126:210456 ANSWER 7 OF 16 REGISTRY COPYRIGHT 1999 ACS L4175644-97-0 REGISTRY RN Lymphokine MCP 1 (human) (9CI) (CA INDEX NAME) CN CI MAN SQL 76 1 QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE SEQ 51 ICADPKQKWV QDSMDHLDKQ TQTPKT HITS AT: 50-61 REFERENCE 1: 124:290261 L4ANSWER 8 OF 16 REGISTRY COPYRIGHT 1999 ACS 163548-47-8 REGISTRY RN Lymphokine MCP-1 (human monocyte chemoattractant 1 fragment) (9CI) CN (CA INDEX NAME) MAN CI SQL 99

1 MKVSAALLCL LLIAATFIPQ GKAQPDAINA PVTCCYNFTN RKISVQRLAS

Searcher: Shears 308-4994

SEQ

51 YRRITSSKCP KEAVIFKTIV AKEICADPKQ KWVQDSMDHL DKQTQTPKT

HITS AT: 73-84

REFERENCE 1: 123:984

L4 ANSWER 9 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 146413-96-9 REGISTRY

CN Lymphokine MCP 1 (human protein moiety reduced), N-L-methionyl-

(9CI) (CA INDEX NAME)

CI MAN

SQL 77

SEQ 1 MQPDAINAPV TCCYNFTNRK ISVQRLASYR RITSSKCPKE AVIFKTIVAK

51 EICADPKOKW VODSMDHLDK QTQTPKT

HITS AT: 51-62

REFERENCE 1: 118:122995

L4 ANSWER 10 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 132083-92-2 REGISTRY

CN 11-76-Lymphokine MCP 1 (human protein moiety reduced) (9CI) (CA

INDEX NAME)

CI MAN

SQL 66

SEQ 1 CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV

= ========

51 QDSMDHLDKQ TQTPKT

HITS AT: 40-51

REFERENCE 1: 115:176698

L4 ANSWER 11 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 132023-88-2 REGISTRY

CN 4-76-Lymphokine MCP 1 (human protein moiety reduced) (9CI) (CA

INDEX NAME)

CI MAN

SQL 73

SEQ 1 AINAPVTCCY NFTNRKISVQ RLASYRRITS SKCPKEAVIF KTIVAKEICA

===

51 DPKQKWVQDS MDHLDKQTQT PKT

=======

HITS AT: 47-58

REFERENCE 1: 115:176698

ANSWER 12 OF 16 REGISTRY COPYRIGHT 1999 ACS L4132023-87-1 REGISTRY RN7-76-Lymphokine MCP 1 (human protein moiety reduced) (9CI) (CA CN INDEX NAME) CI MAN 70 SQL 1 APVTCCYNFT NRKISVQRLA SYRRITSSKC PKEAVIFKTI VAKEICADPK SEQ 51 QKWVQDSMDH LDKQTQTPKT ===== HITS AT: 44-55 1: 115:176698 REFERENCE ANSWER 13 OF 16 REGISTRY COPYRIGHT 1999 ACS L4126545-73-1 REGISTRY RN Lymphokine MCP 1 (human U-I05MG cell protein moiety reduced) (9CI) CN (CA INDEX NAME) MAN CI 76 SQL 1 XPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE SEQ 51 ICADPKQKWV QDSMDHLDKQ TQTPKT HITS AT: 50-61 1: 112:176677 REFERENCE L4ANSWER 14 OF 16 REGISTRY COPYRIGHT 1999 ACS 126463-99-8 REGISTRY RN Lymphokine MCP 1 (human U-I05MG cell protein moiety) (9CI) (CA CN INDEX NAME) MAN CI SQL 76 1 XPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE SEQ 51 ICADPKQKWV QDSMDHLDKQ TQTPKT HITS AT: 50-61 1: 112:176677 REFERENCE ANSWER 15 OF 16 REGISTRY COPYRIGHT 1999 ACS L4RN124147-40-6 REGISTRY Lymphokine MCP 1 (human precursor protein moiety reduced) (9CI) (CA CNSearcher: Shears 308-4994

INDEX NAME)

OTHER NAMES:

CN Monocyte chemotactic protein (human aortic endothelium MCP-1)

CI MAN

SQL 99

SEQ 1 MKVSAALLCL LLIAATFIPQ GLAQPDAINA PVTCCYNFTN RKISVQRLAS

51 YRRITSSKCP KEAVIFKTIV AKEICADPKQ KWVQDSMDHL DKQTQTPKT

HITS AT: 73-84

REFERENCE 1: 120:131889

REFERENCE 2: 119:88360

REFERENCE 3: 118:122995

REFERENCE 4: 115:176698

REFERENCE 5: 114:21643

REFERENCE 6: 113:185693

REFERENCE 7: 113:1553

REFERENCE 8: 112:71309

REFERENCE 9: 112:17070

REFERENCE 10: 112:17058

L4 ANSWER 16 OF 16 REGISTRY COPYRIGHT 1999 ACS

RN 124147-31-5 REGISTRY

CN Lymphokine MCP 1 (human protein moiety reduced) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Lymphokine MCP 1 (human clone pMC(01-04) reduced)

CI MAN

SQL 76

SEQ 1 QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE

51 ICADPKQKWV QDSMDHLDKQ TQTPKT

HITS AT: 50-61

REFERENCE 1: 122:282234

REFERENCE 2: 122:26110

REFERENCE 3: 118:122995

REFERENCE 4: 115:176698

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protein - protein database search, using Smith-Waterman algorithm

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Tue Mar 30 17:40:00 1999; MasPar time 2.89 Seconds 67.259 Million cell updates/sec Run on:

>US-08-927-939-1 (1-12) from US08927939.pep 97 vescription: Perfect Score:

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1 EICADPROKWVO 12 PAM 150 Gap 15 Scoring table: Sedneuce:

131922 seqs, 16180660 residues Searched:

Minimum Match 0% Listing first 45 summaries Post-processing:

| part| 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7 8:part8 9:part9 10:part10 11:part11 12:part12 13:part13 14:part14 15:part15 16:part16 17:part11 18:part18 19:part19 20:part20 21:part21 22:part22 23:part23 24:part29 a-geneseq32 Database:

Mean 18.390; Variance 63.736; scale 0.289 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

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Result		Ouery					
Q	Score	Match	Match Length	DB	ID	Description	Pred. No.
	97	100.0	99	24	W13598	Monocyte chemoattract	4.796-03
2	97	100.0	67	24	W13599 .		4.796-03
3	97	100.0	89	24	W13597		4.79e-03
4	97	100.0	69	14	R87678	des(2-8) MCP-1.	4.79e-03
S	97	100.0	69	24	W13596	Monocyte chemoattract	4.79e-03
9	97	100.0	16	15	R87680	Monocyte chemotactic	4.79e-03
7	25	100.0	76	21	W11131	Mature human monocyte	4.79e-03
æ	97	100.0	76	ß	R28660	MCF.	4.79e-03
σ	97	100.0	7	٦	P90292	Peptide from human ql	4.79e-03
10	97	100.0	7	14	R87675	(28-Asp) MCP-1.	4.79e-03
11	97	100.0	97	20	W09374	Monocyte chemotactic	4.79e-03
12	97	100.0	16	2	R53398	Sense MCP-1.	4.79e-03
13	97	100.0	7	14	R87677	(3-Ala) MCP-1.	4.79e-03
14	97	100.0	7	14	R87676	(24-Arg) MCP-1.	4.79e-03
15	97	100.0	77	15	R86859	Mature MCP-1.	4.79e-03
. 16	97	100.0	66	'n	R28663	MCF.	4.79e-03
17	46	100.0	66	~	P95387	Human monocyte chemo-	4.79e-03
18	97	100.0	66	13	R70800	Chemoattractant prote	4.79e-03

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Human monocyte chemoa Drol3+ chemokine beta Bac 3 chemokine betal Bac 2 chemokine betal Bac 1 chemokine betal Bac 1 chemokine betal Stem cell mobilising Human chemokine betal Monocyte chemotactic Human Chemokine betal Human MCF precursor. Sequence of bovine P6 Sequence Of Volve Chemoa Chemoa tractart proce	ed c CC CC CC CC Scyt MCP- ein.
R73914 W22675 W22673 W22673 W22674 W22674 W12651 W32670 W32670 W32670 R06398 R06398 R26581 R73915 R73915	30040400000000000000000000000000000000
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N'Erminally truncated monocyte chemo:attractant protein-1 (MCP-1) lacks MCP-1 activity and inhibits receptor binding, useful as
lacks MCP-1 activity and inhibits receptor binding, useful as
anti-inflammatory agent

Disclosure: Page 5: 27pp; English.

The present sequence represents an analogue, MCP-1 (10-76), of monocyte
chemotatractant protein-1 (MCP-1). The analogue, which lacks the
N'terminal amino acids 1-9 of MCP-1, acts as an antagonist of MCP-1

as it lacks MCP-1 biological activity and inhibits binding to a MCP-1

creceptor. The analogue is useful as an anti-inflammatory agent to block
the effects of MCP-1 which is an inflammatory mediator causing migration
of monocytes and other cells e.g. basophils and lymphocytes into
inflammatory diseases e.g. arthritis, arteriosclerosis and several lung
diseases. The analogue competes more effectively with MCP-1 for binding
MCP-1 receptors than prior art mutant versions of MCP-1 e.g. preferably
Sequence 66 AA;
Sequence 66 AA; Monocyte chemoattractent protein analogue MCP-1 (10-76).
Truncated monocyte chemoattractant protein-1; inhibitor:
Truncated monocyte chemoattractant protein-1; inhibitor:
checeptor binding; anti inflammatory; basophil: lymphocyte; allergy:
chronic inflammatory disease; arthritis; arteriosclerosis;
ing disease. 66 AA 07-NOV-1997 (first entry) standard; peptide; Homo sapiens. CA2152141-A. 20-DEC-1996. 19-UN-1995; L52141. 19-UN-1995; CA-152141. (LEWI/) LEWIS I. Gong J, Lewis I; WPI; 97-165844/16. M13598 s W13598; 07-20 RESULT NAME OF THE PROPERTY OF THE PR

40 eicadpkgkwvg 51

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Query Match

Score 97; DB 24; Length 66; Pred. No. 4.79e-03; 0; Mismatches 0; Indels

Ouery Match 100.0%; Best Local Similarity 100.0%; Matches 12; Conservative

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Gaps

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Jisclosure; Page 5; 27pp; English.

The present sequence represents an analogue, MCP-1 (11-76), of monocyte chemoattractent protein-1 (MCP-1). The analogue, which lacks the chemoattractent protein-1 (MCP-1). The analogue, which lacks the chemoattractent protein-1 (MCP-1). The analogue, which lacks the neterinal amino acids 1-10 of MCP-1, acts as an antagonist of MCP-1 as it lacks MCP-1 biological activity and inhibits binding to a MCP-1 ceceptor. The analogue is useful as an anti-inflammatory agent to block the effects of MCP-1 which is an inflammatory mediator causing migration "manner of MCP-1 has been implicated in allergic and chronic inflammatory diseases e.g. arthritis, arteriosclerosis and several lung diseases. The analogue competes more effectively with MCP-1 for binding MCP-1 receptors than prior art mutant versions of MCP-1 e.g. preferably with 75:1 for prior art mutant 7ND.

Sequence 67 AA;
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The present sequence represents an analogue, MCP-1 (9-76), of monocyte chemoattractant protein-1 (MCP-1). The analogue, which lacks the N-terminal amino acids 1-8 of MCP-1, acts as an antagonist of MCP-1 as it lacks MCP-1 biological activity and inhibits binding to a MCP-1
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Monocyte chemoattractant protein analogue MCP-1 (9-76).
Truncated monocyte chemoattractant protein-1 inhibitor:
Truncated monocyte chemoattractant protein-1 inhibitor:
Treceptor binding; anti inflammatory; basophil; lymphocyte; allergy;
chronic inflammatory disease; arthritis; arteriosclerosis;
                                                                                                                                                           Monocyte chemoattractant protein analogue MCP-1 (11-76).
Truncated monocyte chemoattractant protein-1; inhibitor;
receptor binding: anti inflammatory; basophil; lymphocyte; allergy;
chronic inflammatory aisease; arthritis; arterlosolerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-terminally truncated monocyte chemo:attractant protein-1 (MCP-1) lacks MCP-1 activity and inhibits receptor binding, useful as anti-inflammatory agent
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. 4.79e-03;
0; Mismatches 0; Indels
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W13597 standard; peptide; 68 AA.
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                                                                                                                                     (first entry)
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                                                                                      standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                             19-JUN-1995, 152141.
19-JUN-1995, CA-152141.
(LEWIZ) LEWIS I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-DEC-1996.
19-JUN-1995; 152141.
19-JUN-1995; CA-152141.
(LEWI/) LEWIS I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 EICADPKOKWVO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       41 eicadpkgkwvg 52
                                                                                                                                                                                                                                                                                                                                                                                                                       Gong J, Lewis I;
WPI; 97-165844/16.
EICADPKOKWVO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gong J, Lewis I;
WPI; 97-165844/16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             lung disease.
Homo sapiens.
CA2152141-A.
                                                                                                                                                                                                                                                         lung disease.
Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12;
                                                                                                                                     07-NOV-1997
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                                                             RESULT 2
ID W13599
DT W13599
DT O7-NOV-1
NW FECEPOTOR
KW FECEPOTOR
KW FECEPOTOR
KW FECEPOTOR
KW FECEPOTOR
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CA21524
PD 19-JUN-1
F 19-F 19-JUN-1
F 19-JUN
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Things monocyte chemo-attractant protein-1 (MCP-1) derivs. - are capable of inhibiting the monocyte chemo-attractant activity of capable of inhibiting the monocyte chemo-attractant activity of capable of inhibiting the monocyte chemo-attractant activity of endogenous MCP-1 and they inhibit the monocyte chemoattractant activity of endogenous worst, provided that the monocyte chemoattractant activity of endogenous MCP-1, provided that the derivative has not been modified by the substitution of 28 Tyr by Leu and/or 30-Arg by Val. Preferred mutations of are: (1) substitution of 28 Tyr by aspartate; (2) substitution of 24 Arg by Phe: (3) substitution of 3-Asb by Ala; and/or (4) deletion of amino acids 2-8. The present sequence is a specifically claimed human MCP-1 acids and Cellular Blology, Vol. 9, No. 11, pp. 4687-4695, Nov. 1989.

The peptides can be used to prevent restenosis, e.g. in patients
receptor. The analogue is useful as an anti-inflammatory agent to block the effects of MVD-1 which is an inflammatory mediator causing migration of monocytes and other cells e.g. basophils and lymphocytes into inflammation sites. MCP-1 has been implicated in allergic and chronic finflammatory diseases e.g. arthritis, arteriosclerosis and several lung diseases. The analogue competes more effectively with MCP-1 for binding MCP-1 receptors than prior art mutant versions of MCP-1 e.g. preferably with 75:1 for prior art mutant 7ND.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note- "amino acids 2-8 of the native protein have been deleted between these residues"
                                                                                                                                                                                                                                                                                                                                                                                                                           .:
0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   des(2-8) MCP-1.
monocyte chemoattractant protein; MCP-1; mutant; restenosis;
                                                                                                                                                                                                                                                                                                                                                           Score 97; DB 24; Length 68; Pred. No. 4.79e-03; 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 11,
4.79e-03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-NOV-1993; US-152301.
(DAND ) DANA FARBER CANCER INST INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
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W13596 standard; peptide; 69 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LT 4
R87678 standard; protein; 69 .
R87678;
                                                                                                                                                                                                                                                                                                                                                           Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 12; Conservative
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Matches 12; Conservative
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07-NOV-1997 (first entry)
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WPI; 95-215051/28.
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Wll131 standard; protein; 76 AA.
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Best Local Similarity 100.0%;
Matches 12; Conservative
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                                                                                                                                                                                                                                                                                                                                                     misc_difference
                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                               restenosis
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       NEW TEACH OF THE PROPERTY OF T
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                                                                                                                                                                                                                                                                                                                                                                   The present activity and inhibits receptor binding, useful as lacks MCP-1 activity and inhibits receptor binding, useful as lacks MCP-1 activity and inhibits receptor binding, useful as anti-inflammatory agent

Claim 5: Page 5: 27pp: English.

The present sequence represents an analogue, MCP-1 (8-76), of monocyte chemotatractent protein-1 (MCP-1). The analogue; which lacks the cheminal amino acids 1-7 of MCP-1, acts as an antagonist of MCP-1 as it lacks MCP-1 biological activity and inhibits binding to a MCP-1 as it lacks MCP-1 biological activity and inhibits binding to a MCP-1 receptor. The analogue is useful as an anti-inflammatory agent to block the effects of MCP-1 which is an inflammatory mediator causing migration of monocytes and other cells e.g. basophils and lymphocytes into inflammatory diseases e.g. arthritis, arteriosclerosis and several lung diseases. The analogue competes more effectively with MCP-1 for binding mCP-1 receptors than prior art mutant versions of MCP-1 e.g. preferably with 75:1 for prior art mutant 7ND.

Sequence 69 AA;
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13-SEP-1994; J01512.
13-SEP-1994; J01512.
13-SEP-1994; J01512.
13-SEP-1994; J01512.
13-SEP-1994; J01512.

Matsushima K, Naruto M;
WPI: 95-131181/17.
Wound treatment using monocyte chemotactic factor - has potent therapeutic effect on skin wounds and ulcers.
Wound treatment using monocyte chemotactic J2-122pp; Japanese.

The invention relates to a new remedy for curing wounds which, instead of comprising a growth factor, comprises a monocyte chemotactic of comprising factor (MCAF) or its variants or derivating factor (MCAF) or its variants or derivatives. The factor has potent effect on skin wounds and ulcers. The present sequence is human monocyte, the activity of which is exemplified as the new remedy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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receptor binding; anti inflammatory; basophil; lymphocyte; allergy; chronic inflammatory disease; arthritis; arteriosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Monocyte chemotactic activating factor for use as wound remedy. monocyte chemotactic activating factor; MCAF; wound remedy.
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Pred. No. 4.79e-03;
0; Mismatches 0; Indels
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Pred. No. 4.79e-03;
0; Mismatches 0; Indels
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R87680 standard; protein; 76 AA.
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Best Local Similarity 100.0%;
Matches 12; Conservative
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                                                                                                                                                                                                    19-JUN-1995; 152141.
19-JUN-1995; CA-152141.
(LEWI/) LEWIS I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           43 eicadpkqkwvg 54
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                                                                                                                                                                                                                                                                                                                 Gong J, Lewis I;
WPI; 97-165844/16.
                                                                    lung disease.
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                                                                                                         sapiens
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                                                                                                                                                                       20-DEC-1996
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RESULT

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targetted delivery of radioactive agent
Example 10; Column 19-20; 15pp; English.
Will31 represents mature human monocyte chemoattractant protein-1
WIN-13 represents mature human monocyte chemoattractant protein-1
(MCP-1). MCP-1 was radionuclide labelled and used in a method for imaging a target site in vivo in an animal. Labelled MCP-1 was allowed to accumulate at a target site (having MCP-1 receptors) in the animal and detected so as to image the target site. Any Cys-Cys or Cys-Xaa-Cys chemokine carrying either indine-123 or iodine-131 can be used in the method. Especially preferred is neutrophil activating peptide-2 (NAP-2) which recognises inderleukin-8 receptors and is labelled with technetium-99m, indium-111, copper-62, rhenium-186 or rhenium-188.
The method can be used for imaging a site of infection, inflammation, neoplasm, atheromatous lesion or restenosis.
10-JUN-1997 (first entry)
Mature human monocyte chemoattractant protein-1 (MCP-1).
MAP-1; mature chemoattractant protein-1; cytokine; interleukin-8;
MCP-1; mature chemoattractant protein-1; cytokine; interleukin-8;
IL-8; neutrophil activating peptide; labelling; imaging; targeting;
radionuclide; infection; inflammation; neoplasm; atheromatous lesion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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Prodn. of polypeptide(s) having monocyte chemotactic activity using expression plasmids with E. coli elements and specific E.coli strains
Claim 1; Page 48 + Page 36; 56pp; English.
An expression plasmid, pHM483, for producing MCF(76) consisting of 76 amino acids was constructed. The prod. can be used for e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI: 97-15354/714.
Radio:labelling neutrophil-activating peptide(s) - for imaging
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Plasmid; monocyte chemotactic factor; MCF; translation; termination; terminator; initiation; ribosome binding site;
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                                                                                                                                                                                                                                                            /note= "X= any amino acid"
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27-ARR-1992.
09-MAY-1991. JP-135950.
(DAIN ) DAINIPPON PHARM CO LTD.
FUKUI T, MATSUO N, YAMAGA M, YAMAGISHI J;
WPI; 92-398864/48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                treating bacterial infectious diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RBS; promoter; tryptophan; repressor
Synthetic.
                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                          25-FEB-1997.
05-0CT-1992: 956862.
05-0CT-1992: US-956863.
05-0CT-1992: US-956862.
29-APR-1994: US-956862.
(MCW) MALLINCKRODT WEDICAL INC.
(UMI ) UNIV MICHIGAN.
Kunkel SL, Lyle LR, Strieter RM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lyle LR, Strieter RM;
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1 EICADPKOKWVQ 12
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                                                                                                                                                                                                                                                                                                                                                    misc_difference 65
                                                                                                                                                                                                                                                                                                                            misc_difference 51
                                                                                                                                    50 eicadpkgkwvg
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                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                        USS571713-A
                                                                                                                                                                                                                          21-MAR-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 restenosis.
                                                                                                                                                                                                              W09374;
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                                                                                                                                                                                                                                                                                                                                     Disclosure: page 3; 46pp; English. Peptide is derived from glioma cell line U-105MG (ATCC CRL9932) or from leukocytes and has mol. wt. 8400. Used to treat infections and neoplasms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human monocyte chemo-attractant protein-1 (MCP-1) derivs. - are capable of inhibiting the monocyte chemo-attractant activity of endogenous MCP-1 and can be used to treat restenosis claim 3: Page 11; 22pp; English.

Monocyte chemoattractant protein-1 (MCP-1) derivatives are mutated such that they inhibit the monocyte chemoattractant activity of endogenous MCP-1, provided that the derivative has not been modified by the substitution of 28-Tyr by Leu and/or 30-Arg by Val. Preferred mutations are: (1) substitution of 28 Tyr by by aspartate; (2) substitution of 24 Arg
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                                                                                                                                                                                                                                                                   (USSH) US Dept. of Health and Human.
Yoshimura T: Robinson E; Appella E; Leonard E.
WPI; 89-263501/36.
New peptide with specific chemotactic activity for monocytes - isolated from glioma or leucocyte cells, useful for treating infections and neoplasms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note- "Tyr in the native sequence is replaced by Asp" 11\dots36 12..52
                        Gaps
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                       0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                     0; Indels
                                                                                                                                                                                                                                                                                                                                                                                              Score 97; DB 1; Length 76; Pred. No. 4.79e-03; 0; Mismatches 0; Indels
 97; DB 5; Length 76;
No. 4.79e-03;
                                                                                                                                17-7AN-1990 (first entry)
Peptide from human glioma cell line U-105MG.
Glioma; leucocyte; chemotaxis; neoplasms.
                       0; Mismatches
                                                                                                                                                                                                               /note= "pyroglutamic acid"
                                                                                                                                                                              Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-MAY-1995.
07-NOV-1994; U12874.
12-NOV-1993; US-152301.
(DAND ) DANA FARBER CANCER INST INC.
RED11.ns B, ZhANG YJ;
WPI; 95-215051/28.
  Score
Pred.
                                                                                                 n 9
P90292 standard; peptide; 76 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .T 10
878775; standard; protein; 76 AA.
81.FEB-1996 (first entry)
                                                                                                                                                                                                   /label- OTHER
                                                                                                                                                                                                                                                                                                                                                                                            Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 12; Conservative
Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 12; Conservative
                                                                                                                                                                                                                                                          31-JAN-1989; US-304234.
                                                        1 EICADPKQKWVQ 12
                                            50 eicadpkgkwvg 61
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31-JAN-1989; 030423
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disulfide_bond
w09513295-Al.
                                                                                                                                                                                       modified_site
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                                                                                                                         P90292;
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ID P9
AC P9
DT 17
DE PE
KW G1
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Anti-sense Monocyte Chemotactic Protein-1 oligo:nucleotide(s) -
useful for therapy or diagnosis of restenosis, etc.
Disclosure: Column 13-14; 16pp: English.
This is the amino acid sequence of the human monocyte chemoattractant
protein (MCP)-1, a member of the C-C chemokine family. MCP-1 is a potent
stimulator of monocyte chemotaxis and is produced by injured vascular
smooth cells thus attracting monocytes and macrophages which infiltrate
the injured area and release growth factor. This causes proliferation of
the vascular smooth cells resulting in restenosis. The gene sequence can
be used to generate antisense sequences e.g. T48093-7, which can be used
to inhibit in vitro MCP-1 produ. by monourclear cells e.g. lymphocytes or
macrophages, or smooth muscle cells, esp. in order to prevent vascular
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by Phe; (3) substitution of 3-Asp by Ala; and/or (4) deletion of amino acids 2-8. The present sequence is a specifically claimed human MCP-1 derivative based on the parent protein disclosed in Rollins, Molecular and Cellular Biology, Vol. 9, No. 11, pp. 4687-4695, Nov. 1989. The peptides can be used to prevent restenosis, e.g. in patients sequence 76 AA:
                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein; antisense; inhibition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .;
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                                                                                                                                                                                                                                                  Length 76
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0; Mismatches 0; Indels
                                                                                                                                                                                                                                               Score 97; DB 14; Le
Pred. No. 4.79e-03;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "encoded by codon CAC"
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22-00T-1992; US-965678.
27-MX-1994; US-250958.
(UMI ) UNIV MICHIGAN.
Kunkel SL, Lyle LR, Strieter RM;
WPI; 96-505405/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Monocyte chemotactic protein 1.
Human; monocyte chemoattractant
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R53398 standard; Protein; 76 .
R53398;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               T 11
W09374 standard; Protein; 76
                                                                                                                                                                                                                                               Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 12; Conservative
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Best Local Similarity 100.08;
Matches 12; Conservative
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Sense MCP-1.
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Gaps

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Things to the property of the monocyte chemo-attractant protein-1 (MCP-1) derivs. - are capable of inhibiting the monocyte chemo-attractant activity.of endogenous MCP-1 and can be used to treat restenosis claim 5: Page 11: 22pp: English.

Someocyte chemoatractant protein-1 (MCP-1) derivatives are mutated such that they inhibit the monocyte chemoatractant activity of endogenous MCP-1, provided that the derivative has not been modified by the substitution of 28-Tyr by Leu and/or 30-Arg by Val. Preferred mutations are: (1) substitution of 28-Tyr by aspartate; (2) substitution of 24 Arg by Phe: (3) substitution of 3-Asp by Ala; and/or (4) deletion of amino acids 2-8. The present sequence is a specifically claimed human MCP-1 derivative based on the parent protein disclosed in Rollins, Molecular and Cellular Biology, Vol. 9, No. 11, pp. 4687-4655, Nov. 1989.

The peptides can be used to prevent restenosis, e.g. in patients
                                                                                                                                                                                                                                                                                                                                        /note= "Arg in the native sequence is replaced by Phe" 11..36
12..52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mature MCP-1.
Antisense; monocyte chemotactic protein-1; MCP-1;
"C-C" family; chemoattractant cytokine; chemokine; stimulation;
monocyte; chemotaxis; vascular smooth muscle cell; macrophage;
proliferation; restenosis; balloon angioplasty.
                                                                                                                                                                                                                                                               (24-Arg) MCP-1.
monocyte chemoattractant protein; MCP-1; mutant; restenosis;
   Score 97; DB 14; Length /0; Pred. No. 4.79e-03; 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 97; DB 14; Length 76; Pred. No. 4.79e-03; 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    undergoing coronary artery angioplasty.
Sequence 76 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-MAY-1995.
07-MOY-1994.
12-MOY-1993; US-152301.
(DAND ) DANA FARBER CANCER INST INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-JAN-1995; U00605:
14-JAN-1994; US-182917.
(MLCW) MALLINCKRODT MEDICAL INC.
LYJE LE, THOMAS-MILLER B;
WPI; 95-263703/34.
                                                                                                                                                                                     .r 14
R87676 standard; protein; 76 AA.
R87676;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               T 15
R86859 standard; Protein; 77 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 100.0%;
Matches 12; Conservative
                 Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 12; Conservative
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                                                                                           61
                                                                                                                 1 EICADPKQKWVQ 12
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                                                                                           50 eicadpkgkwvg
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WO9513295-A1.
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WO9519167-A1.
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                                                                                                                                                                                                                                                                                                      angioplasty
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The Maria monocyte chemo-attractant protein-1 (MCP-1) derivs. - are capable of inhibiting the monocyte chemo-attractant activity of rendogenous MCP-1 and can be used to treat restenosis

Todam 6: Page 11: 22pp: English.

Claim 6: Page 11: 22pp: English.

Monocyte chemoattractant protein-1 (MCP-1) derivatives are mutated such that they inhibit the monocyte chemoattractant activity of endogenous (MCP-1, provided that the derivative has not been modified by the substitution of 28-Tyr by Leu and/or 30-Arg by Val. Preferred mutations are: (1) substitution of 28-Tyr by Leu and/or 30-Arg by Val. Preferred mutations of 24-Arg by Here; (3) substitution of 24-Arg by Ala; and/or (4) deletion of amino acids 2-8. The present sequence is a specifically claimed human MCP-1 derivative based on the parent protein disclosed in Rollins, Molecular and Callular Biology, Vol. 9, No. 11, pp. 4687-4695, Nov. 1989.

The peptides can be used to prevent restenosis, e.g. in patients undergoing coronary artery angioplasty.
                                                                                                                                                                               The peptide(s) - is used for inhibiting, treating or imaging areas of anti-sense monocyte chemotactic protein-1 oligo:nucleotide(s) and peptide(s) - is used for inhibiting, treating or imaging areas of vascular restenosis or potential restenosis.

The sequences given in R53398-99 repeasent sense and antisense monocyte chemotactic protein-1 (MCP-1) respectively. These conforuclectides may be labelled with a radionuclide and use the repartering for the treatment of vascular restenosis.

C aligonuclectically for the treatment of vascular restenosis.

C Radiolabelled antisense MCP-1 compounds may be constructed using high energy alpha or beta emitting isotopes rather than the gamma emitters cutomarily used for diagnostic purposes. Antisense MCP-1 compounds inactivate MCP-1 or inhibit production of MCP-1 so that monocytes are not attracted to the area of vascular injury and proliferation of vascular is inhibited.
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11..36
12..52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 97; DB 10; Length 76;
Pred. No. 4.79e-03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                                                                        /note= "Unspecified amino acid"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
diagnosis; monocytes; vascular injury.
Mammalian,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-MAY-1995.
07-NOV-1994; U12874.
12-NOV-1993; US-152301.
(DAND ) DANA FARBER CANCER INST INC.
ROLLINS B, ZhANG YJ;
WPI; 95-215051/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                   Location/Qualifiers
                                                                                                           28-APR-1994.
20-CCT-1993; U10074.
22-CCT-1992; US-965678.
(MLCW ) MALLINCKRODT MEDICAL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R87677 standard; protein; 76 AA.
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Local Similarity 100.0%;
hes 12; Conservative
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                                                    misc_difference
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WO9513295-A1.
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R8
AAC R8
BDJ 21
DD C3
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KW MO
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CS
FT MO
FT MO
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Gaps

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Disclosure; Page 5: 50pp; English.

This sequence represents the mature form of monocyte chemotactic

This sequence represents the mature form of monocyte chemotactic

This sequence represents the mature form of monocyte chemotaxis and has an externely high degree of specificity

of monocyte chemotaxis and has an externely high degree of specificity

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of monocyte chemotaxis and has an externely high degree of specificity

of this cell type. MCP-1 is produced by linjued vascular smooth muscle

area, releasing growth factors and resulting in proliferation of vascular

smooth muscle and restenosis. Nucleic acid molecules which are antisense

to the MCP-1 mRNA may be used to inhibit translation of MCP-1 and so may

angioplasty or a related process. The molecule may be radiolabelled to

increase its therapeutic effect or for imaging areas of potential
N-PSDB; T03528.
New anti:sense oligo:nucleotide(s) and peptide(s) for inhibiting restenosis - are directed against C-C family cytokine(s) such as monocyte chemotactic protein, opt. radio:labelled for therapy or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                77 AA;
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0; Gaps Score 97; DB 15; Length 77; Pred. No. 4.79e-03; 0; Mismatches 0; Indels Query Match
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Search completed: Tue Mar 30 17:40:38 1999 Tob time : 38 secs.

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

Tue Mar 30 17:39:21 1999; MasPar time 3.33 Seconds 135.096 Million cell updates/sec Run on:

protein - protein database search, using Smith-Waterman algorithm

MPsrch\_pp

Fabular output not generated.

>US-08-927-939-1 (1-12) from US08927939.pep 97 1 EICADPKQKWVQ 12 le: Description: Perfect Score: Sequence:

PAM 150 Gap 15 Scoring table:

116738 segs, 37463448 residues Searched:

Post-processing: Minimum Match 0% Listing first 45 summaries

pir58 1:pir1 2:pir2 3:pir3 4:pir4 Database:

Mean 24.661; Variance 36.070; scale 0.684 Statistics: Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

					SUMMARIES		
		ф					
Result		Query					
02	Score	Match	Match Length DB	80	ID	Description	Pred. No.
-	97	100.0	66	~	A60299	monocyte chemoattract	1.33e-08
7		99.0	66	~	JC2136	monocyte chemoattract	2.24e-08
m			66	~	A39296	monocyte chemoattract	1.78e-07
4		94.8	66	7	JC2336	monocyte chemoattract	1.78e-07
'n	91	93.8	125	7	I46857	monocyte chemoattract	2.97e-07
9	90	92.8	109	7	A54678	monocyte chemotactic	4.96e-07
7	88	90.7	66	7	JC2417	monocyte chemoattract	1.37e-06
æ	88	90.7	120	~	I48147	monocyte chemoattract	1.37e-06
σ	86	88.7	97	7	JC4912	eotaxin - human	3.77e-06
10	84	96.6	95	7	JN0841	interleukin-8 - dog	1.03e-05
11	84	9.98	96	7	JC2478	eotaxin - rat	
12	84	96.6	96	~	148099	eotaxin precursor - q	1.03e-05
13	84	86.6	101	7	146997	interleukin-8 - sheep	7
14	84	86.6	101	~	S42496	1	Н
15	84	86.6	103	7	A53096	interleukin-8 precurs	1.03e-05
16	84	96.6	103	~	A44253	alveolar macrophage c	1
17	83	85.6	92	~	152322	macrophage inflammato	1.69e-05
18	82	84.5	66		JC5295	monocyte chemotactic	2.78e-05
19	81	83.5	101		146871	interleukin-8 - rabbi	4.55e-05
20	80	82.5	148		A30209	PDGF-inducible JE qly	7.44e-05
21	76	78.4	92		A32393	macrophage inflammato	5.18e-04
22	16	78.4	148		S07723	immediate-early serum	5.18e-04
23	75	77.3	89	~	A53497	pre-B-cell growth-sti	8.37e-04

8.37e-04 8.37e-04 8.37e-04 8.37e-04 1.35e-03 3.47e-03 3.47e-03 1.40e-02 2.21e-02 2.21e-02 2.21e-02 1.34e-01 2.09e-01 3.24e-01 5.09e-01	7.70e-01
interleukin-8 homolog cytokine SDF-1-beta - cytokine - mouse interleukin-8 precurs Neutrophil attractant monocyte achemoattract macrophage inflammato LD78-beta protein pre lymphocyte and monocy immune activation gen monocyte chemoattract monocyte cytokine FI lymphotactin precurso Chitin synthetase I - RSV-induced protein - transformation-induce nacrophage inflammato LD78-beta protein FRV-induced protein - transformation-induce nacrophage inflammato lymphotactin precurso Chitin synthetase I - RSV-induced protein - transformation-induce nacrophage inflammato lymphotactin precurso hypothetical protein precurso	hypothetical protein
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### ALIGNMENTS

RESULT

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TITLE	monocyte chemoattractant procein 1 precursor - numan FG GDGF-1: alloma-derived monocyte chemotactic factor 1: MCAF:
	MCP-1;
CONTAINS	glioma-derived chemotactic factor 2 (GDCF-2)
ORGANISM	#formal_name Homo sapiens #common_name man
DATE	20-Feb-1993 #sequence_revision 20-Feb-1993 #text_change
ACCESSIONS	A35474; A33476; S03339; I51841; A60299; A32300; A32396;
0 CNG G G G G G	A34561; I5/488; JC1096
#authors	Shyv, Y.J.; Li, Y.S.; Kolattukudy, P.E.
#journal	1.
#title	Structure of human monocyte chemotactic protein gene and its
4 0 1 0 1 0 1	regulation by TPA.
10 C C C C C C C C C C C C C C C C C C C	1
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##residues	ues 1-99 ##label SHY
SSOLU##	ferences GB:M37719;
REFERENCE	
#authors	Rollins, B.J.; Stier, P.; Ernst, T.: Wong, G.G.
#journal	
#title	The human homolog of the JE gene encodes a monocyte secretory
•	protein,
#cross-ref	eren
#accession	A33476
##molec	
##residues	##label ROL
##Cross	##cross-references GB:M30816; GB:M31625; GB:M31626; NID:g188701;
	100000000000000000000000000000000000000
# # # # # # # # # # # # # # # # # # #	Vochimira T. Vihki N. Moore, S.K. Appella, F. Jerman.
	( )
#journal	:487-493
#title	Human monocyte chemoattractant protein-1 (MCP-1). Full-length
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	mononuclear leukocytes, and sequence similarity to mouse
9 ( )	Competence gene de.
#CTOSS-TEL	#CTOSS Telefences Mullidylosous #accession S03339
##status	ທ
##molec	le_type
##residues	##label YOS
##Cross	#cross-references GB:X14768; NID:934513; PID:934514

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chemoattractant protein-1 (MCP-1) gene
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Yamada, M.; Larsen, C.G.; Oppenheim, J.J.; Matsushima, K.
#journal Biochem, Biophys. Res. Commun. (1989) 159:249-225
Cloning and sequencing of the cDNA for human monocyte
chemotexic and activating factor (MCAF).
#accession A32300
##eression
                                                                                                                                                                                                                                                 Int. J. Cancer (1990) 45:795-797
A chemoattractant expressed in human sarcoma cells.
(tumor-derived chemotactic factor, TDCF) is identical to
monocyte chemoattractant protein-1/monocyte chemotactic and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #authors Decock, B.; Conings, R.; Lenaerts, J.P.; Billiau, A.; Van Damme, J.

#journal Biochem. Biophys. Res. Commun. (1990) 167:904-909

#title Identification of the monocyte chemotactic protein from human osteosarcoma cells and monocytes: detection of a novel

#cross-references MUID:90211336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #authors Li, Y.S.; Shyy, Y.J.; Wright, J.G.; Valente, A.J.; Cornhill, J.F.; Kolattukudy, P.E. #journal Mol. Cell. Biochem. (1993) 126:61-68
#title The expression of monocyte chemotactic protein (MCP-1) in human vascular endothelium in vitro and in vivo. #accession 157488
                                                                                                                                                                                                                Bottazzi, B.; Colotta, F.; Sica, A.; Nobili, N.; Mantovani,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JC1096
Ye, Q.N.; Su, G.F.; Yuan, Y.; Huang, C.F.
Chinese J. Microbiol. Immunol. (1994) 14:29-32
The PCR, cloning and sequencing of human monocyte
                                 -authors Yoshimura, T.: Leonard, E.J. ijournal Adv. Exp. Med. Biol. (1991) 305:47-56 #title Human monocyte chemoattractant protein-1 (MCP-1). #cross-references MUID:92095166
                                                                                                      ##molecule_type mRNA
##residues 1-00 #*)-. -
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##cross-references GB:S71513; NID:9240867; PID:9240868
NCE A60299
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##residues 29-33,'XX',36-52;82-92 ##label DEC
SNCE IS7488
##experimental_source glioma cell line U-105MG
NCE I51841
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#accession A32396
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#domain signal sequence #status predicted #label SIG\
#product monocyte chemoattractant protein 1 #status
experimental #label MAT\
#product monocyte chemoattractant protein 1, short form
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monocyte chemoattractant protein-1 precursor - pig
#formal_name Sus scrofa domestica #common_name domestic pig
30.58p-1993 #sequence_revision 20-Aug-1994 #text_change
08-58p-1997
JC2136; S57498
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Porcine luteal cells express monocyte chemoattractant
protein-1 (MCP-1): Analysis by polymerase chain reaction
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#map_position 17q11.2-17q12
CLASSIFICATION #superfamily macrophage inflammatory protein
KEYWORDS
CYtokine; glycoprotein; inflammation; pyroglutamic acid
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Scheit, K.H.
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#residues 1-99 ##label ZAC
##cross-references EMBL:X79416; NID:9872312; PID:9872313
FPICATION #superfamily macrophage inflammatory protein
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submitted to the EMBL Data Library, July 1994
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##molecule_type mRNA
##residues 24-28,'Q',30-99 ##label YEQ
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#formal_name Bos prinigenius indicus #common_name zebu cattle
20.Feb-1995 #sequence_revision 20.Feb-1995 #text_change
03.May-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                            #authors Wempe, F.; Henschen, A.; Scheit, K.H.
#journal DNA Cell Biol. (1991) 10:671-679
#title Gene expression and cDNA cloning identified a major basic protein constituent of bovine seminal plasma as bovine monocyte-chemoattractant protein-1 (MCP-1).
#cross-references MUID:92096117
#accession A39296
                                                              P6
                                             monocyte chemoattractant protein 1 precursor - bovine monocyte chemotactic factor 1; seminal plasma protein P6 #formal_name Bos primigenius taurus #common_name cattle 03-Aug-1992 #sequence_revision 03-Aug-1992 #text_change
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Biochem. Biophys. Res. Commun. (1994) 202:1272-1279
Characterization of the bovine monocyte chemoattractant
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##cross-references GB:M84602; GB:M85264; NID:g163394; PID:g163395
cession B39296
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26/1; 65/2
24-10-rfamlly macrophage inflammatory protein
#length 99 #molecular-weight 11114 #checksum
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.,78e-07;
...as 0; Indels
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##residues 50-68,'X',70-74,'X',76 ##label WE2
##experimental_source seminal vesicle
IFICATION #superfamily macrophage inflammatory protein
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Pred. No. 1.78e-07;
1; Mismatches 0; Indels
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Pred. No. 1.78e-07;
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##residues 1-99 ##label WEM
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1 EICADPKOKWVO 12

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Opdenakker, G.; Fiten, P.; Nys, G.; Froyen, G.; Van Roy, N.; Speleman, F.; Laureys, G.; Van Damme, J. Genomics (1994) 21-1403-408

The human MCP-3 gene (SCYA7): cloning, sequence analysis, and assignment to the C-C chemokine gene cluster on chromosome 17911.2-912.
                                                                                                                                                                                                               #authors Yoshimura, T.; Yuhki, N.
#journal J. Immunol. (1991) 146:3483-3488
#title Neutrophil attractant/activation protein-1 and monocyte
chemoattractant protein-1 in rabbit: cDNA cloning and their
#cross-references WUID:91225489
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Human monocyte chemotactic protein-3 (MCP-3): Molecular
cloning of the cDNA and comparison with other chemokines.
monocyte chemoattractant protein-1 - rabbit
#formal_name Oryctolagus cuniculus #common_name domestic
rabbit
                                                                                       14-Feb-1997 #sequence_revision 14-Feb-1997 #text_change 09-May-1997 146857
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##cross-references EMBL:X71087; NID:g288396; PID:g288397
T This protein induces proteinase secretion and chemotaxis by
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##residues 1-125 ##label YOS
##cross-references GB:MS7440; NID:9165469; PID:9165470
#EICANION #superfamily macrophage inflammatory protein

XX #length 125 #molecular-weight 13776 #checksum
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##cross-references GB:X72309
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A54678; JC1478; S32222
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J. Immunol. 1993) 150:5025-5032
CDNA cloning of guinea pig monocyte chemoattractant protein-1
and expression of the recombinant protein.
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#formal_name Sus scrofa domestica #common_name domestic pig
24-Feb-1995 #sequence_revision 24-Feb-1995 #text_change.
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Biochem, Biophys. Res. Commun. (1994) 205:148-153
Porcine luteal cells express monocyte chemoattractant protein-2 (MCP-2): Analysis by cDNA cloning and northern
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#product monocyte chemotactic protein 3 #status
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#binding_site carbohydrate (Asn) (covalent) #status
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#length 109 #molecular-weight 12356 #checksum 1535
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#formal_name Cavia porcellus #common_name guinea pig
02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
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Pred. No. 4.96e-07;
0; Mismatches 1; Indels
                                               #gene GDB:SCYA7; SCYA6; MCP-3
##cross-references GDB:138473; OMIM:158106
#map_position 17q11-17q12
#introns
#5/1; 75/2
ASSIFICATION #superfamily macrophage inflammatory protein cytokine: glycoprotein; inflammation
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FICATION #superfamily macrophage inflammatory protein
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#accession I48147
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st Local Similarity 91.7%;
matches 11; Conservative
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Best Local Similarity 83.3%;
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Bartels, J.; Schlueter, C.; Richter, E.; Noso, N.; Kulke, R.; Christophers, E.; Schroeder, J.M.
Biochen. Biophys. Res. Commun. (1996) 225:1045-1051
Human dermal fibrolasts express ectaxin: Molecular cloning, mRNA expression, and identification of ectaxin sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ##ROLOUS_LYPE mann
##residues
##residues
##coss-references EMBL:Z75668; NID:91531982; PID:e251275; PID:91531983
##experimental_source dermal fibroblast
## This protein has eosinophil specific chemotatic activity.
FICATION #superfamily macrophage inflammatory protein
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This protein is a polymorphonuclear leukocyles chemotactic factor and is involved in the host defense function.
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#product eotaxin #status predicted #label MAT
#length 97 #molecular-weight 10790 #checksum 448
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19-May-1994 #sequence_revision 19-May-1994 #text_change
12-Apr-1995
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Pred. No. 1.37e-06;
1; Mismatches 1; Indels
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Pred. No. 3.77e-06;
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Cloning of a canine gene homol
interleukin-8-encoding gene.
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T This protein is identified as a potent eosinophil chemoattractant.
FICATION #superfamily macrophage inflammatory protein
                                                                                                                                                                                                                                                                                                                                         Jose, P.J.: Adcock, I.M.; Griffiths-Johnson, D.A.; Berkman, N.; Wells, T.N.C.; Williams, T.J.; Power, C.A. Biophys. Res. Commun. (1994) 205:788-794 Eotaxin: Cloning of an eosinophil chemoattractant cytokine and increased mRNA expression in allergen-challenged
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rothenberg, M.E.; Luster, A.D.; Lilly, C.M.; Drazen, J.M.;
Leder, P.
J. Exp. Med. (1995) 181:1211-1216
Constitutive and allergen-induced expression of ectaxin mRl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #domain signal sequence #status predicted #label SIG\
#product eotaxin #status predicted #label MAT\
#binding_site carbohydrate (Thr) (covalent) #status
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#formal_name Cavia porcellus #common_name guinea pig
02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
04-May-1997
                                                                                                          Gaps
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21-Feb-1995 #sequence_revision 05-Apr-1995 #text_change
08-Sep-1997
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96 #molecular-weight 10695 #checksum 7329
           22/1; 67/2
#superfamily beta-thromboglobulin
#length 95 #molecular-weight 10611 #checksum 3157
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#journal Immunol. Cell Biol. (1994) 72:398-405
#title Cloning, sequencing, expression and inflammatory activity
skin of ovine interleukin-8.
#cross-references MUID:95137691
#accession 146997
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                                                                                                                                                                                                             unterleukin-8 - sheep
#formal_name_Ovis sp. #common_name_sheep
21-Feb-1997 #sequence_revision 21-Feb-1997 #text_change
09-May-1997
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##molecule_type mRNA
##residues 1-101 ##label LEG
##cross-references EMBL:X78306; NID:g463253; PID:g463254
##cross-references EMBL:X78306; NID:g463253; PID:g463254
FICATION #superfamily beta-thromboglobulin

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Pred. No. 1.03e-05;
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Pred. No. 1.03e-05;
2; Mismatches 1; Indels
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                   Score 84; DB 2; Length 96; Pred. No. 1.03e-05;
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##residues 1-101 ##label SEO
##cross-references GB:S74436; NID:9786590; PID:9786591
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#length 101 #molecular-weight 11292
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Best Local Similarity 75.0%;
Matches 9; Conservative
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Best Local Similarity 90.5°,
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RESULT

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A53096 #type complete
interleukin-8 precursor - pig
#formal_name Sus scrofa domestica #common_name domestic pig
#formal_name Sus scrofa domestica #common_name domestic pig
#02-Jun-1995 #sequence_revision 02-Jun-1995 #text_change
08-Sep-1997
A53096
A53096
Lin, G.: Pearson, A.E.; Scamurra, R.W.; Zhou, Y.; Baarsch,
M.J.; Weiss, D.J.; Murraugh, M.P.
J. Biol. Chem. (1994) 269:77-85
Regulation of interleukin-8 expression in porcine alveolar
macrophages by bacterial lipopolysaccharide.
                                                                                                                                                                                                                                                                                                                                                          ##status preliminary
##molecule_type mRNA
##residues 1-103 ##label LIN
##cross-references GB:M86923; NID:g164520; PID:g164521

**SIFICATION #superfamily beta-thromboglobulin
**SUMMARX #length 103 #molecular-weight 11633 #checksum 8835
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86.6%; Score 84; DB 2; Length 103;
Best Local Similarity 75.0%; Pred. No. 1.03e-05;
Matches 9; Conservative 2; Mismatches 1; Indels
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protein - protein database search, using Smith-Waterman algorithm MPsrch\_pp

Tue Mar 30 17:37:49 1999; MasPar time 2.32 Seconds 138.808 Million cell updates/sec Tabular output not generated. Run on:

>US-08-927-939-1 (1-12) from US08927939.pep 97 1 EICADPKOKWVQ 12 Description: Perfect Score: Sequence:

PAM 150 Gap 15 Scoring table:

74019 seqs, 26840295 residues

Searched:

Minimum Match 0% Listing first 45 summaries Post-processing:

swiss-prot36 1:swissprot Database:

Mean 25.450; Variance 32.065; scale 0.794 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## STIMMAPTES

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			Pred. No.	2 706-10	2.70e-10	4.91e-10	1.61e-09	2.92e-09		0	1.70e-08	1.70e-08	⊣	3.05e-0	5.44e-08	5.44e-08	1.73e-07	5.42e-07	5.42e-07	5.42e-07	5.42e-07	9.58e-07	1.69e-06	1.69e-06	2.96e-06	2.96e-06
			Description	MONOCYTE CHEMOTACTIC		-			MONOCYTE CHEMOTACTIC P	MONOCYTE CHEMOTACTIC P	EOTAXIN PRECURSOR (EOS	_	MONOCYTE CHEMOTACTIC P	EOTAXIN PRECURSOR (EOS	MONOCYTE CHEMOTACTIC P	MONOCYTE CHEMOTACTIC P	MONOCYTE CHEMOTACTIC P	EOTAXIN PRECURSOR (EOS.	INTERLEUKIN-8 PRECURSO	INTERLEUKIN-8 PRECURSO	INTERLEUKIN-8 PRECURSO	MACROPHAGE INFLAMMATOR	MONOCYTE CHEMOTACTIC P	MONOCYTE CHEMOTACTIC P	MACROPHAGE INFLAMMATOR	INTERLEUKIN-8 PRECURSO
SOMMAKIES			ID	MCP1 HUMAN	MCP1 CANFA	MCP1_PIG	MCP2_BOVIN	MCP4_HUMAN	MCPA_BOVIN	MCP1_RABIT	EOTA_RAT	EOTA_MOUSE	MCP3_HUMAN	EOTA_HUMAN	MCP2_PIG	MCP1_CAVPO	MCP5_MOUSE	EOTA_CAVPO	IL8_CANFA	IL8_SHEEP	IL8_PIG	MIJA_RAT	MCPB_BOVIN	MCP2_HUMAN	MIP4_HUMAN	IL8_BOVIN
			DB			٦	н	~	-	-		-		-		7	-		-		-	-4	-	~		н
			Match Length	66	101	66	66	86	66	125	97	46	66	97	66				101						83	101
	œ	Query	Match	100.0	100.0	0.66	6.96	95.9	94.8	93.8	92.8	95.8	92.8	91.8	7.06	90.7	88.7	86.6	86.6	86.6	86.6	85.6	84.5	84.5		83.5
			Score	97	97	96	94	66	92	91	06	90	06	68	88	88	86	84	84	84	84	83	82	82	81	81
		Result	NO.	1	7	æ	4	S	9	7	00	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23

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INTERLEUKIN-8 PRECURSO MONOCYTE CHEMOTACTIC P MONOCYTE CHEMOTACTIC P MONOCYTE CHEMOTACTIC STROMAL CELL-DERIVED F STROMAL CELL-DERIVED F STROMAL CELL-DERIVED F INTERLEUKIN-8 PRECURSO INTERLEUKIN-8 PRECURSO T-CELL SPECIFIC RANTES T
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### ALIGNMENTS

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01-JAN-1990 (REL. 13, CREATED)
01-JAN-1990 (REL. 13, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN PRECURSOR (MCP-1) (MONOCYTE CHEMOTACTIC
AND ACTIVATING FACTOR) (MCAF) (MONOCYTE SECRETORY PROTEIN JE)
(MONOCYTE CHEMOATTRACTANT PROTEIN 1) (HC11) (SMALL INDUCIBLE CYTOKINE
                                                                                                                                                                                                                        SEQUENCE FROM N.A.
MEDLINE: 89165862.
FURUTANI Y., NOWINA H., NOTAKE M., OYAMADA Y., FUKUI T., YAMADA M.,
FURUTANI Y., OPPENHEIM J.J., MATSUSHIMA K.;
BIOCHEM. BIOPHYS. RES. COMMUN. 159:249-255(1989).
                                                                                                                                                             HOMO SAPIENS (HUMAN).
EUKARYOTA; META2OA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CHANG H.C., HSU F., FREEMAN G.J., GRIFFIN J.D., REINHERZ E.L.;
INT. IMMUNOL. 1:388-399(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
MEDLINE; 94150478.
LI Y.S., SHYY Y.J., WRIGHT J.G., VALENTE A.J., CORNHILL J.F.,
KOLATIUKUY P.E.,
MOL. CELL. BIOCHEM. 126:61-68(1993).
                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE; 89153605.
YOSHTUNRA T., YUHKI N., MOORE S.K., APPELLA E., LERMAN M.I.,
LEONARD E.J.;
FEBS LETT. 244:487-493(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
MEDLINE, 90290464
SHYY Y.J., ILYS., KOLATTUKUDY P.E.;
BIOCHEM. BIOPHYS. RES. COMMUN. 169:346-351(1990).
                                                                                                                                                                                                                                                                                                                                               ROLLINS B.J., STIER P., ERNST T., WONG G.G., MOL. CELL. BIOL. 9:4687-4695(1989).
               99 AA.
               PRT;
               STANDARD;
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                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM
                                                                                                                                                 SCYA2 OR MCP1.
RESULT 1
ID MCP1_HUMAN
AC P13500;
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SEQUENCE FROM N.A.
TISSUE-JUGULAR VEIN ENDOTHELIAL;
MEDLINE; 97176620.
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Best Local Similarity 100.0%;
Matches 12; Conservative
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                                  PDB; 1DOL; 12-MAR-97.
PDB; 1DOM; 14-CCT-96.
PDB; 1DON; 14-CCT-96.
PDB; 1MCA; 15-CCT-94.
MIM; 158105;
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503339;
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MCP1_CANFA

AC 01-0CT-1996

DT 01-0CT-1996

DE MONOCYTE CHE

CHEMOATHEACT

SCYAZ CANIS FAMILII

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CO EUTARRYOTA; M

CO EUTARRYOTA; M

RP SEQUENCE FRO

RP SEQUENCE FRO

RP SEQUENCE FRO

RP SECUENCE FRO

RAY PLAY

CC REACTION

CC RESUENCE

CC -1 INDUCTION

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CC -1 INDUCTION
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SEQUENCE
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DISULFID
CARBOHYD
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MUTAGEN
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FEBS LETT. 395:277-282(1996)
-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES AND BASOPHILS
BUT NOT NEUTROPHILS ON EDSINOPHILS. AGGMENTS MONOCYTE ANTI-TUMOR
ACTIVITY. HAS BEEN IMPLICATED IN THE PATHOGENESIS OF DISEASES
CHARACTERIZED BY MONOCYTIC INFILTRATES, LIKE PSORIASIS, RHEUMATOID
ARTHRITIS OR ATHEROSCLEROSIS. MAY BE INVOLVED IN THE RECRUITMENT
OF MONOCYTES INTO THE ARTERIAL WALL DURING THE DISEASE PROCESS OF
ATHEROSCLEROSIS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -:- SUBUNIT: MONOMER OR HOMODIMER; IN EQUILIBRIUM.
-:- PTM: PROCESSING AT THE N-TERMINUS CAN REGULATE RECEPTOR AND TARGET CELL SELECTIVITY. DELETION OF THE AMINO- TERMINAL RESIDUE CONVERTS IT FROM AN ACTIVATOR OF BASOPHIL TO AN EOSINOPHIL CHEMOATTRACTANT.
-:- SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE; 96195223.
WEBER M., UGUCCIONI M., BAGGIOLINI M., CLARK-LEWIS I., DAHINDEN C.A.;
J. EXP. MED. 183:681-685(1996).
                                                                                                                                                ROBINSON E.A., YOSHIMURA T., LEONARD E.J., TANAKA S., GRIFFIN P.R., SHABANOWITZ J., HUNT D.F., APPELLA E.; PROC. NATL. ACAD. SCI. U.S.A. 86:1850-1854(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE; 97143315.
LUBKOWSKI J., BUJACZ G., DOMAILLE P.J., HANDEL T.M., WLODAWER A.;
MAT. STRUCT: BIOL. 4:64-69(1997).
[12]
                                                                                                                                                                                                                                          MEDLINE; 90211336.
DECOCK B., CONINGS R., LENAERTS J.-P., BILIAU A., VAN DAMME J.;
BIOCHEM. BIOPHYS. RES. COMMUN. 167:904-909(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EFFECT OF DELETION OF N-TERMINAL RESIDUES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE; 94253189.
ZHANG Y.J., RUTLEDGE B.J., ROLLINS B.J.;
J. BIOL. CHEM. 269:15918-15924(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                    x-RAY CRYSTALLOGRAPHY (1.85 ANGSTROMS)
                                                    YOSHIMURA T., LEONARD E.J.;
ADV. EXP. MED. BIOL. 305:47-56(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE: 96234959.
HANDEL T.M., DOMAILLE P.J.;
BIOCHEMISTRY 35:6569-6584(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE, 91312872.
GRONENBORN A.M., CLORE G.M.;
PROTEIN ENG. 4:263-269(1991).
                                                                                                                                                                                                                            SEQUENCE OF 29-53 AND 82-92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                M24545; G307163; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            M28226, G338009; -. X14768, G34514; -. M37719, G487124; -.
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G641145;
                                                                                                                                                                                                                                                                                                                      3D-STRUCTURE MODELLING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; M28224; G338007
EMBL; S69738; G545465
EMBL; S71513; G240868
EMBL; A17786; G641145
PIR; A35474; A35474
              SEQUENCE FROM N.A. MEDLINE: 92095166.
                                                                                          [8]
SEQUENCE OF 24-99.
                                                                                                                              89184525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE; 97053697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRUCTURE BY NMR
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                                                                                                                                MEDLINE;
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EMBL;
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EMBL;
EMBL;
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-!- INDUCTION: BY TNN-ALPHA.
-!- INDUCTION: BY TNN-ALPHA.
-!- TISSUE SPECIFICITY: ENDOTHELIUM OF SMALL VEINS AND INTRAFASCICULAR VEINS, AND INFILTRATING LEUKOCYTES.
-!- SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C-C) (CHEMOKINE CC).
C-C) (CHEMOKINE CC).
EMBL: U29653; 61144186; -.
PROSITE; PS00472; SMALL_CYTOKINES_CC; 1.
CYTOKINE; CHEMOTAX: SIGNAL, INFLAMMATORY RESPONSE.
SIGNAL 1 23 BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        K.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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LINDSEY M.L., HAKKINS H.K., BIRDSALL H.H., MACKAY G.L., YOUKER K.I.
ROSSEN R.D., SMITH C.W., ENTHAN M.L.;
CIRCULATION 95:693-700(1997).
-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES, BUT NOT NEUTROPHILS. IMPORTANT FACTOR IN THE COURSE OF THE INFLAMMYORY RACTION TO REPERFUSION OF THE PREVIOUSLY ISCHEMIC MYOCARDIUM.
MAY PLAY A SIGNIFICANT ROLE IN MONOCYTE TRAFFICKING INTO THE REPERFUSED MYOCARDIUM.
                                                                                                                                                                                                                                                              MISSING: LOSS OF ACTIVITY.
MISSING: LOSS OF ACTIVITY.
MISSING: 90% REDUCTION IN ACTIVITY.
MISSING: 83% REDUCTION IN ACTIVITY.
D-A: 90% REDUCTION IN ACTIVITY.
N-A: 50% REDUCTION IN ACTIVITY.
S-O: 40% REDUCTION IN ACTIVITY.
S-D: LOSS OF ACTIVITY.
Y-DE: LOSS OF ACTIVITY.
D-A: 90% REDUCTION IN ACTIVITY.
S-D: LOSS OF ACTIVITY.
D-A: 90% REDUCTION IN ACTIVITY.
PROSITE; PS00472; SMALL_CYTOKINES_CC; 1.
CYTOKINE; CHEMOTAXIS; SIGNAL; INFLAMMATORY RESPONSE; 3D-STRUCTURE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SCYA2 OR MCP1.
CANIS FAMILIARIS (DOG).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
0
                                                                                                 MONOCYTE CHEMOTACTIC PROTEIN 1. PYRROLIDONE CARBOXYLIC ACID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-0CT-1996 (REL. 34, CREATED)
1-0CT-1996 (REL. 34, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANDATATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN 1 PRECURSOR (MCP-1) (MONOCYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Indels
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Pred. No. 2.70e-10;
0; Mismatches 0
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Ouery Match
Best Local Similarity 83.3%;
Matches 10; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SCYA13 OR MCP4 OR NCC1. HOMO SAPIENS (HUMAN).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 EICADPKQKWVQ 12
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                                                                                    SEQUENCE FROM N.A
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ID MCP4_HUMAN
AC 099616;
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ZACH O.R.F.;
SUBMITTED (JUL-1994) TO EMBL/GENBANK/DDBJ DATA BANKS.
SUBMITTED (JUL-1994) TO EMBL/GENBANK/DDBJ DATA BANKS.
I- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES, BUT NOT NEUTROPHILS.
I- SUBUNIT: MONOMER OR HOMODIMER; IN EQUILIBRIUM (BY SIMILARITY).
I- SUBUNIT: MONOMER OR HOMODIMER; IN EQUILIBRIUM (BY SIMILARITY).
I- SUBUNIT: MONOMER OR HOMODIMER; IN EQUILIBRIUM (BY SIMILARITY).
I- SUBUNIT: MONOMER OR HOMODIMER; IN FERRIT BETA FAMILY (SNALL CYTOKINE EMBL; X79416; G83717; --
EMBL; X79416; G837313; --
EMBL; X79416; G837313; --
EMBL; X79416; G872313; --
EMBL;
                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE; 94183284.
HOSANG K., KNOKE I., KLAUDINY J., WEMPE F., WUTTKE W., SCHEIT K.H.;
BIOCHEM. BIOPHYS. RES. COMMUN. 199:962-968(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                             PRESULT

MCP1_PIG

MCP1_PIG

MCP1_PIG

MCP1_PIG

MCP1_PIG

MCP1_PIG

MCP1_PIG

D1 NOV-1995 (REL. 32, CREATED)

T1 01-NOV-1995 (REL. 32, LAST SEQUENCE UPDATE)

MONOCYTE CHEMOTACTIC PROTEIN 1 PRECURSOR (MCP-1).

SCTA2.

SCTA2.

SCTA2.

SCTA2.

SCTA2.

CUTHERIA: ARTIODACTYLA.

RA MEDLINE: 94183284.

C EUTHERIA: RICHARDINY J., WEMPE F., WUTTKE W., SCHEIT K.H.;

RA MEDLINE: 94183284.

RA MEDLINE: PROM N.A.

C IISUBLITED (JUL-1994) TO EMBL/GENBANK/DDBJ DATA BANKS.

C ISTACH O.R. F.:

RA JACH O.R. F.:

RA JACH O.R. F.:

C INDIROPHILS:

C ISTACH O.R. F.:

RA JACH O.R. F.:

SIGNAL JACH O.R. F.:

RA JACH O.R. F.:

RA JACH O.R. F.:

RA JACH O.R. F.:

SIGNAL JACH O.R. F.:

RA JACH O.R. F.:

RA JACH O.R. F.:

RA JACH O.R. F.:

SIGNAL JACH O.R. F.:

RA JACH O.R. F.:

RA JACH O.R. F.:

RA JACH O.R. F.:

BARDICATION CHEMOTALIS: SIGNAL JACH ORDER CAID (BY SIMILARITY).

RA JACH O.R. F.:

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MONOCYTE CHEMOTACTIC PROTEIN 1.
PYRROLIDONE CARBOXYLIC ACID (BY SIMILARITY.
BY SIMILARITY.
BY SIMILARITY.
A7075B14 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MCP2_BOVIN STANDARD; PRT; 99 AA.

009141;
01-NOV-1995 (REL. 32, CREATED)
01-NOV-1995 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN 2 PRECURSOR (MCP-2) (MONOCYTE
CHEMOATTRACTANT PROTEIN 2).
                                                                                                                                                                                          Score 97; DB 1; Length 101; Pred. No. 2.70e-10; 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 96; DB 1; Length 99; Pred. No. 4.91e-10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SIMILARITY).
BY SIMILARITY.
BY SIMILARITY.
ECC3AFB4 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Mismatches
                                                                               34 59 13
35 75 1
101 AA; 11121 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       59
75
10976 MW;
                                                                                                                                                                                          Query Match
Best Local Similarity 100.0%;
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 91.7%;
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                     1 EICADPROKWVQ 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 EICADPKOKWVO 12
                                                                                                                                                                                                                                                                                                      73 EICADPKQKWVQ 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              73 EICAEPKOKWVO 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SCYA8 OR MCP2.
BOS TAURUS (BOVINE).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DISULFID
DISULFID
SEQUENCE
                                                                                  DISULFID
  CHAIN
MOD_RES
                                                                                                                                     SEQUENCE
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C. -: SUBUNIT: MONOMER OR HOMODIMER; IN EQUILIBRIUM (BY SIMILARITY).

C. -: SUBUNIT: MONOMER OF THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C.-) (CHEMOKINE CC).

EMBL: S67954; E118856; ...

R EMBL: S67954; E118856; ...

R EMBL: S67954; G144997; ...

R EMBL: S67956; G344997; ...

R EMBL: S67956; G344997; ...

R EMBL: S67956; G344997; ...

T OTYOKINE; CHEMOTAXIS; SIGNAL; HEPARIN-BINDING; INFLAMMATORY RESPONSE.

T CHAIN 24 99 MONOMER CARBOXYLIC ACID (BY SIMILARITY).

T DISULFID 34 59 BY SIMILARITY.

T DISULETD 35 75 BY SIMILARITY.

T DISULETD 35 75 BY SIMILARITY.

T SEQUENCE 99 AA; 10900 MM; 9BAZCD26 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                 MEDLINE; 94114084.
WENDE F., HANES J., SCHEIT K.H.;
DNA CELL BIOL. 13:1-8(1994).
-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES. THIS PROTEIN
CAN BIND HEPARIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DANTE M., GIBSON A.;
SUBMITTED (AUG-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES, LYMPHOCYTES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              H., LIMA S.H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE: 97341179.
BERKHOUT T.A., SARAU H.M., MOORES K., WHITE J.R., ELSHOURBAGY N., APPELBAUM E., REAPE T.J., BRAWNER M., MAKWANA J., FOLEY J.J., SCHAIDT D.B., IMBURGIA C., MACULIY D., MATHEWS J., O'DONNELL K., O'SHANDESY D., SCOTT M., GROOT P.H.E., MACPHEE C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE; 97113354.
GARCIA-ZEPEDA E.A., COMBADIERE C., ROTHENBERG M.E., SARAFI M.N.
GARCIA-ZEPEDA E.A., HAMID Q., MURRHY P.M., LUSTER A.D.;
J. IMMUNOL. 157:5613-5626(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; ARTIODACTYLA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
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15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN 4 PRECURSOR (MCP-4) (MONOCYTE
CHEMOATTRACTANT PROTEIN 4) (CK-BETAIO) (NCC-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE; 96235049.
UGUCCIONI M., LOETSCHER P., FORSSMANN U., DEWALD B., LI F.
LI Y., KREIDER B., GAROTTA G., THELEN M., BAGGIOLINI M.;
J. EXP. MED. 183:2379-2384(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 94; DB 1; Length 99; Pred. No. 1.61e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A., AND SEQUENCE OF 22-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A., AND SEQUENCE OF 17-98
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MCP1_RABIT
P28292;
                                                                                                                                            DISULFID
DISULFID
SEQUENCE
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CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
SEQUENCE
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                                                                                                                      MOD_RES
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                                                                                                            CHAIN
                                                                                                                                                                                                                   Matches
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                                                                             MASS SPECTROMETRY: WW-9314; WW_ERR-30; METHOD-MALDI; RANGE-17-98.
MASS SPECTROMETRY: WW-8760; WW_ERR-30; METHOD-MALDI; RANGE-22-96.
MASS SPECTROMETRY: WW-8760; WW_ERR-30; METHOD-MALDI; RANGE-22-96.
MASS SPECTROMETRY: WW-8767; WW_ERR-30; METHOD-MALDI; RANGE-24-98.
INDUCTION: BY INTELEMENT AND THE ALPHA.
IISSUE SPECIFICITY: WIDELY EXPRESSED. FOUND IN SMALL INTESTINE, THISMUS, COLON. LUNG, TRACHEA, STOMACH AND LYMPH NODE. LOW LEVELS SEEN IN THE PULMONARY ARTERY SMOOTH MUSCLE CELLS.
THIS PROTEIN CAN BIND HEBARIN.
PTM: ONE MAJOR ISOFORM MCP-4, AND TWO MINOR ISOFORMS (LA)MCP-4 AND FROMUCD BY DIFFERENTIAL SIGNAL CLEAVAGE.
[LA)MCP-4 IS ABOUT 30 FOLD LESS ACTIVE THAN MCP-4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WEMPE F., KUHLMANN J.K., SCHELT K.H.;
BIOCHEM. BIOPHYS. RES. COMMUN. 202:1272-1279(1994).
-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES, BUT NOT NEUTROPHILS.
-!- SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE
BASOPHILS AND EOSINOPHILS, BUT NOT NEUTROPHILS. SIGNALS THROUGH CCR2B AND CCR3 RECEPTORS. PLAYS A ROLE IN THE ACCUMULATION OF LEUROCYTES AT BOIL SIDES OF ALLERGIC AND NONALLEBRGIC INFLAMMATION. MAY BE INVOLVED IN THE RECRUITMENT OF MONOCYTES INTO THE ARTERIAL WALL DURING THE DISEASE PROCESS OF ARTHEROSCLEROSIS. MAY PLAY A ROLE IN THE MONOCYTE ATTRACTION IN TISSUES CHRONICALLY EXPOSED TO
                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-DEC-1992 (REL. 24, CREATED)
01-DEC-1992 (REL. 24, LAST SEQUENCE UPDATE)
01-DSC-1995 (REL. 32, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN IA PRECURSOR (MCP-1A) (MCP-1) (ACIDIC SEMINAL FULID PROTEIN)
BOS TAURUS (BOVINE)
                                                                                                                                                                                                                                                                       PROSITE; PS00472; SMALL_CYTOKINES_CC; 1.
CYTOKINE; CHEMOTAXIS; SIGNAL; GLYCOPROTEIN; INFLAMMATORY RESPONSE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                                MONOCYTE CHEMOTACTIC PROTEIN PYRROLIDONE CARBOXYLIC ACID. BY SIMILARITY. BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE; 92181448.
WEMPE F., EINSPANIER R., SCHEIT K.H.;
BIOCHEM. BIOPHYS. RES. COMMUN. 183:232-237(1992).
                                                                                                                                                                                                                                                                                                                                                         POTENTIAL.
DF52F6EC CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WEMPE F., HENSCHEN A., SCHEIT K
DNA CELL BIOL. 10:671-679(1991)
                                                                                                                                                                                                                                                                                              23
98
24
58
74
74
10986 MW;
                                                                                                                                                                                                                                                                                                                                                                                          95.9%;
                                                                                                                                                                                                                                     EMBL; U46767; G1732123; -. EMBL; AC002482; G2340091; MIM; 601391; -.
                                                                                                                                                                                                                                                                                                                                                                                                                  11; Conservative
                                                                                                                                                                                                               -!- SIMILARITY: BELONGS T
C-C) (CHEMOKINE CC).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STANDARD;
                                                                       EXOGENOUS PATHOGENS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EUTHERIA; ARTIODACTYLA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
TISSUE-SEMINAL PLASMA;
MEDLINE; 92096117.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
TISSUE-SEMINAL PLASMA;
                                                                                                                                                                                                                                                                                                                                                                                                                                        72 EICADPKEKWVQ 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 EICADPKQKWVQ 12
                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                    98 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A
MEDLINE; 94338337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 6
ID MCPA_BOVIN
A P28291;
                                                                                                                                                                                                                                                                                                                       MOD_RES
DISULFID
DISULFID
                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                              SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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-:- SUBUNIT: MONOMER OR HOMODIMER: IN EQUILIBRIUM (BY SIMILARITY)
-:- SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C.C.) (CHEMOKINE CC).
EMBL: M57440; G165470; -.
HSSP; P13500; 1MCA.
                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
STRAIN-NEW ZEALAND WHITE; TISSUE-SPLEEN;
STRAIN-NEW 7125408 19125408 N.;
YOSHIMURA T., YUHKI N.;
J. IMMUNOL. 146:3483-3488 (1991).
-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES, BUT NOT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE; PS00472; SMALL_CYTOKINES_CC; 1.
CYTOKINE; CHEMOTAXIS; SIGNAL; INFLAMMATORY RESPONSE; GLYCOPROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PYROLIDE CHEMOTACTIC PROTEIN 1.
PYRROLIDONE CARBOXYLIC ACID (BY SIMILARITY.).
BY SIMILARITY.
POTENTIAL.
POTENTIAL.
POTENTIAL.
W, FBAC9D27 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORYCTOLAGUS CUNICULUS (RABBIT).
EUKARYOTA: METAZOA; CHORDATA: VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; LAGOMORPHA.
                                                                                                                                                                                                                                                                                                                                            ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                BY SIMILARITY.
MONOCYTE CHEMOTACTIC PROTEIN 1A.
PYRROLIDONE CARBOXYLIC ACID (BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BY SIMILARITY.
MONOCYTE CHEMOTACTIC PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 91; DB 1; Length 125;
Pred. No. 9.47e-09;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                            0; Indels
                                                                                                                                                                                                                                                                                                       Length 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-DEC-1992 (REL. 24, CREATED)
01-DEC-1992 (REL. 24, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN 1 PRECURSOR (MCP-1).
                                                                                                                                                                                                                                                                                                   Score 92; DB 1; L
Pred. No. 5.26e-09;
1; Mismatches 0
                                                                                                                                                                                                                          BY SIMILARITY.
BY SIMILARITY.
C8F5821D CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              125 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97 AA
                                                                                                                 SMALL_CYTOKINES_CC; 1.
                                                                                                                                                                                                             SIMILARITY)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
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Σ
                                                                                                                                                                                                                          34 59
35 75
99 AA; 11114 MW;
                                                                                                                                    SIGNAL
C-C) (CHEMOKINE CC).
EMBL; L32659; G624394; -
EMBL; M84602; G163395; -
PIR; A39296; A39296.
PIR; JC2336; JC2336.
HSSP; P13500; IMCA.
PROSITE; PSO0472; SMALL_CXT.
CYTOKINE; CHEMOTAXX; SIGNAL
                                                                                                                                                                                                                                                                                                   h 94.8%;
Similarity 91.7%;
11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 93.8%;
Best Local Similarity 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   112
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23
125
24
                                                                                                                                                                                                                                                                                                                                                                                                     73 ELCADPKOKWVQ 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     112 1
125 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 ICADPKQKWVQ 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      74 ICADPKOKWVQ 84
                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 8
ID EOTA_RAT
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PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRUCTURE BY NMR, AND SUBUNIT
                                                                                                                                                                                                                                 10893 MW;
                                                                                                                                                                                                                                                      92.8%;
larity 91.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                    STANDARD;
                                                                                                                                                                                                                                                                                                   71 EICADPKKKWVQ 82
                                                                                                                                                                                                                                                                                                              IISSUE-OSTEOSARCOMA;
                                                                                                                                                                                                                                                                 Local Similarity
les 11; Consei
                                                                                                                                                                                                                                  97 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. MEDLINE; 93305913.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE; 93213290.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE; 92308855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE OF 30-99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE; 97053697
                                                                                                                                                                                                                                                                                                                                                        LT 10
MCP3_HUMAN
P80098;
                                                                                                                                                                                                           DISULFID
DISULFID
SEQUENCE
                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                  CHAIN
                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                   SUBMITTED (MAY-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.

-!- FUNCTION: IN RESPONSE TO THE PRESENCE OF ALLERGENS, THIS PROTEIN
DIRECTLY PROMOTES THE ACCUMINATION OF EOSINOPHILS, A PROMINENT
FEATURE OF ALLERGIC INFLAMMATORY REACTIONS (BY SIMILARITY).

-!- SUBCELLULAR LOCATION: EXTRACELLULAR.

-!- FIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE
C-C) (CHEMOKINE CC).

EMBL: Y08358; E224141; -
PROSITE; PSO0472; SMALL_CYTOKINES_CC; 1.

PROSITE; PSO0472; SMALL_CYTOKINES_CC; 1.

EMBL: CYTOKINE: CYTOKINE: CHEMOTAXIS; GLYCOPROTEIN; SIGNAL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GONZALO J.-A., JIA G.-Q., AGUIRRE V., FRIEND D., COYLE A.J.,
JENKINS N.A., LIN G.-S., KATZ H., LICHTWAN A., COPELAND N.G., KOPF M.,
CHITTERREZ-RAMOS J.-C.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -! - FUNCTION: IN RESPONSE TO THE PRESENCE OF ALLERGENS, THIS PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MUS MUSCULUS (MOUSE).
EUKARYOTA: METAZOA: CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA: RODENTIA.
                                                       RATTUS NORVEGICUS (RAT).
EUKARYOTA: META2OA: CHORDATA: VERTEBRATA: TETRAPODA; MAMMALIA;
EUTHERIA: RODENTIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                         Length 97;
                                                                                                SEQUENCE FROM N.A.
WILLIAMS C.M., NEWTON D.J., WILSON S.A., COLEMAN J.C.
FLANAGAN B.F.;
                                                                                                                                  SUBMITTED (DEC-1996) TO EMBL/GENBANK/DDBJ DATA BANKS
P97545; OO8780;
15-JUL-1998 (REL. 36, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
EOTAXIN PRECURSOR (EOSINOPHIL CHEMOTACTIC PROTEIN).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ECTA_MOUSE STANDARD; PRT; 97 AA.
P48288:
D1-FEB-1996 (REL. 33, CREATED)
01-FEB-1996 (REL. 33, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
ECTAXIN PRECURSOR (EOSINOPHIL CHEMOTACTIC PROTEIN).
                                                                                                                                                                                                                                                                                                                                            ECTAXIN.

BY SIMILARITY.

BY SIMILARITY.

POTENTIAL.

L -> S (IN REF. 2).

0584ED45 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ROTHENBERG M.E., LUSTER A.D., LEDER P.;
PROC. NATL. ACAD. SCI. U.S.A. 92:8960-8964(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                       Score 90; DB 1; Le
Pred. No. 1.70e-08;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                    POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN-C57BL/6J; TISSUE-LUNG;
MEDLINE: 96158746.
                                                                                                                                                                                                                                                                                                                                                                                                   97 AA; 10851 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                        92.8%;
ilarity 91.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GUTIERREZ-RAMOS J.-C.;
IMMUNITY 4:1-14(1996).
                                                                                                                                                                                                                                                                                                                        INFLAMMATORY RESPONSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 EICADPKOKWVQ 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   71 EICADPKKKWVQ 82
                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 11; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE=LUNG;
MEDLINE; 96004658.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                   TISSUE-LUNG;
                                                                                                                                                                                                                                                                                                                                            CHAIN
DISULFID
DISULFID
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                          CONFLICT
                                                                                                                                                                                                                                                                                                                                    SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SCYA11
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ID EC
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DIRECTLY PROMOTES THE ACCUMULATION OF EOSINOPHILS (A PROMINENT FEATURE OF ALLERGIC INFLAMMATORY REACTIONS), BUT NOT LYMHOOTYTES, MACROPHAGES OR NEUTROPHILS.

-1. EXPRESSION INDUCIBLE IN THE LING (TYPE I ALVECLAR EPITHELIAL CELES), INTESTINE, HEART, SPLEEN, KIDNEY.

-1. INDUCTION: BY INTERFERON-GAMMA AND LIPOPOLYSACCHARIDE (LPS).

-1. FDM: O-GLYCOSYLATED (PROBABLE).

-1. SIMILARIY: BELONGS TO THE INTERFRINE BETA FAMILY (SMALL CYTOKINE C.C.) (CHEMOKINE CC).

-1. SIMILARIY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C.C.) (CHEMOKINE CC).

-1. SIMILARIY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE CC).

-1. SIMILARIY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C.C.) (CHEMOKINE CC).

-1. SIMILARIY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE CC).

-1. SIMILARIY: PSO0472; G1113937; ---

-2. RODS: CONTROL CYTOKINES CYTOKINES CC: 1.

-2. RODS: CONTROL CYTOKINES CANALI.

-2. RODS: CONTROL CYTOKINES CHEMOTAXIS; GLYCOPROTEIN; SIGNAL;

-2. SIGNAL CYTOKINES CHEMOTAXIS; GLYCOPROTEIN; SIGNAL;

-3. PARTICULARIY CHEMOTAXIS; GLYCOPROTEIN; SIGNAL;

-3. PARTICULARIY CHEMOTAXIS; GLYCOPROTEIN; SIGNAL;

-4. SIGNAL CYTOKINES CHEMOTAXIS CHEMOT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
MEDLINE: 94375065.
OPDENAKKER G., FITEN P., NYS G., FROYEN G., VAN ROY N., SPELEMAN F.,
LAUJEYS G., VAN DAMME J.;
GENOMICS 21:403-408(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MINIY A., CHALON P., GUILLEMOT J.C., KAGHAD M., LIAUZUN P., MAGAZIN M., MILOUX B., MINIY C., RAMOND P., VITA N., EUPKER J., SHIRE D., FERRARA P., CAPUT D.; EUR. CYTOKINE NETW. 4:99-110(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;;
0
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EUKARYOTA: METAZOA: CHORDATA; VERTEBRATA: TETRAPODA: MAMMALIA.
EUTHERIA: PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ر
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01-NOV-1995 (REL. 32, LAST SEQUENCE UPDATE)
115-UUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN 3 PRECURSOR (MCP-3) (MONOCYTE CHEMOATTRACTANT PROTEIN 3) (NC28).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OPDENAKKER G., FROYEN G., FITEN P., PROOST P., VAN DAMME BIOCHEM. BIOPHYS. RES. COMMUN. 191:535-542(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 97;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VAN DAMME J., PROOST P., LENAERTS J.-P., OPDENAKKER G.;
J. EXP. MED. 176:59-65(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KIM K.-S., RAJARATHNAM K., CLARK-LEWIS I., SYKES B.D.;
FEBS LETT. 395:277-282(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A., AND SEQUENCE OF 31-67 AND 71-99.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 90; DB 1; L. Pred. No. 1.70e-08; 0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EOTAXIN.
BY SIMILARITY.
BY SIMILARITY.
F85A96BC CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99 AA
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10; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             71 DICADPKKKWVQ 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE; 97312708.
                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                 ISSUE-PLACENTA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ISSUE-LUNG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BARTELS J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LT 12
MCP2_PIG
P49873;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VARIANT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DISULFID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VARIANT
VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /ARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
g
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                                                                                                                                                                                                                                                                                       -:- SUBUNIT: MONOMER.
-:- PTM: O-GLYCOSYLATED.
-:- SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C-C) (CHEMOKINE CC).
C-C) (CHEMOKINE CC).
EMBL; X72308; G313708; ALT_INIT.
EMBL; X72309; -: NOT_ANNOTATED_CDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PONATH P.D., QIN S., RINGLER D.J., CLARK-LEWIS I., WANG J., KASSAM N., SMITH H., SHI X., GONZALO J.A., NEWMAN W., GUIIERREZ-RAMOS J.C.,
                                                         MEDLINE; 97263733.

MEDNIER S., BERNASSAU J.-M., GUILLEMOT J.-C., FERRARA P., DARBON H.;

MEDICHEMISTRY 36.4412-4422(1997).

-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES AND EDSINOPHILS, BUT NOT NEUTROPHILS. AUGMENTS MONOCYTE ANTI-TUMOR ACTIVITY. ALSO INDUCES THE RELEASE OF GELATINASE B. THIS PROTEIN CAN BIND HEPARIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MONOCYTE CHEMOTACTIC PROTEIN 3.
PYRROLIDONE CARBOXYLIC ACID.
BY SIMILARITY.
BY SIMILARITY.
POTENTIAL.
T -> K (IN REF. 4).
MISSING (IN REF. 4).
7502E19C CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
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EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PIR: JC178; JC17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .
م
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
MEDLINE: 96181758.
GARCIA-ZEPEDA E.A., ROTHENBERG M.E., OWNBEY T.R., LEDER
LUSTER A.D.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LT 11
CT 11
CT 21
CT 41

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLIN. INVEST. 97:604-612(1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL: X72309; -: NOT_ANNOTATED_C
EMBL: X71087; G288399; -:
EMBL: X71087; G288398; ALT_INIT.
EMBL: X71087; G288397; ALT_INIT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    70
11200 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 92.8%;
Best Local Similarity 91.7%;
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAT. MED. 2:449-456(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
TISSUE-SMALL INTESTINE;
MEDLINE; 96205964.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 EICADPKQKWVQ 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                73 EICADPTOKWVQ 84
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99 AA;
                         STRUCTURE BY NMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MACKAY C.R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CHAIN
MOD_RES
DISULFID
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIGNAL
g
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-:- SUBCELLULAR LOCATION: EXTRACELLULAR.
-:- PTM: O-GLYCOSYLATED (PROBABLE).
-:- INDUCTION: BY INF-ALPHA, IL-1-ALPHA AND INTERFERON GAMMA.
-:- SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C-C) (CHEMOKINE CC).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BICCHEM. BIOPHYS. RES. COMMUN. 237:537-542(1997).
-!- FUNCTION: IN RESPONSE TO THE PRESENCE OF ALLERGENS, THIS PROTEIN DIRECTLY PROMOTES THE ACCUMULATION OF EOSINOPHILS, A PROMINENT FEATURE OF ALLERGIC INFLAMMATORY REACTIONS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE; 97445071.
HEIN H., SCHLUETER C., KULKE R., CHRISTOPHERS E., SCHROEDER J.M.
                                                                                                                                                                                                                                                                                                                                                     GARCIA-ZEPEDA E.A., ROTHENBERG M.E., WEREMOWICZ S., SARAFI M.N.,
MORTON C.C., LUSTER A.D.;
GENOMICS 41:471-476(1997).
                                                                                                   SEQUENCE FROM N.A., SEQUENCE OF 60-65 AND 75-88, AND VARIANTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .
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KITAURA M., NAKAJIMA T., IMAI T., HARADA S., COMBADIERE C.,
TIFFANY H.L., MURPHY P.M., YOSHIE O.;
J. BIOL. CHEM. 271:7725-7730(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-007-1996 (REL. 34, CREATED)
01-007-1996 (REL. 34, LAST SEQUENCE UPDATE)
15-UTL-1998 (REL. 36, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN 2 PRECURSOR (MCP-2) (MONOCYTE
CHEMOATTRACTANT PROTEIN 2).
SCYAB OR MCP2.
SUS SCROFA (PIG).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 97;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROSITE; PS00472; SNALL_CYTOKINES_CC; 1.
EOSINOPHIL; CYTOKINE; CHEMOTAXIS; GLYCOPROTEIN; SIGNAL;
INPLAMMATORY RESPONSE; POLYMORPHISM.
                                                                                                                              TISSUE-FORESKIN;
MEDLINE; 96374440.
BARTELS J., SCHLOETER C., RICHTER E., NOSO N., KULKE CHRISTOPHERS E., SCHROEDER J.M.;
BIOCHEM. BIOPHYS. RES. COMMUN. 225:1045-1051(1996),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L -> P (IN CLONE 3
A -> T (IN CLONE 5
R -> S (IN CLONE 3
K -> R (IN CLONE 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 3.05e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6C0F3D98 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 89;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EOTAXIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10732 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; U46573; G1280141; EMBL; U34780; G1185440; EMBL; D49372; G155241; EMBL; Z69291; E221070; EMBL; Z75669; E251275; EMBL; U46572; G2086509; ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               91.8%;
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ID MC
AC P4
DT 01
DT 15
DT E MC
DE CF
GN SK
OS St
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104 AA

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THE STANDARD OF THE STANDARD S
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J. EXP. MED. 185:99-109(1997).
-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS EOSINOPHILS, MONOCYTES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
MEDLINE, 97079149.
JA G.-Q., GONZALO J.A., LLOYD C., KREMER L., LU L., MARTINEZ A.C.
WERSHIL B.K., GUTIERREZ-RAMOS J.C.;
J. EXP. MED. 184:1939-1951(1996).
                                                                                                                                                                                  01-NOV-1997 (REL. 35, CREATED)
01-NOV-1997 (REL. 35, LAST SEQUENCE UPDATE)
115-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN 5 PRECURSOR (MCP-5) (MCP-1 RELATED CHEMOXINE).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAVIA PORCELLUS (GUINEA PIG).
EUKARYOTA, METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; RODENTIA.
                                                                                                                                                                                                                                                                                                                             SCYAL2 OR MCP5.
MUS MUSCULUS (MOUSE).
EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA:
EUTHERIA; RODENTIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFLAMMATORY RESPONSE.
BY SIMILARITY.
MONOCYTE CHEMOTACTIC PROTEIN 5.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
MEDLINE; 97149438.
SARAFI M.N., GARCIA-ZEPEDA E.A., MACLEAN J.A., CHARO I.F.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 86; DB 1; Length 104;
Pred. No. 1.73e-07;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUN-1994 (REL. 29, CREATED)
01-OCT-1996 (REL. 34, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
EOTAXIN PRECURSOR (EOSINOPHIL CHEMOTACTIC PROTEIN).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BY SIMILARITY.
08FA6C35 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11659 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88.7%;
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10; Conservative
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                                                                                                                                     STANDARD;
|:|||| |||||
| EICADPKQKWVQ 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               72 EICADPKEKWV 82
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                                                                                                                                  MCP5_MOUSE
Q62401;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EOTA_CAVPO
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11D ED
DAC P18
DD 011
DD 115
DD EC
GN SC
CA
OC ET
RN [:]
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                                                                                                                 MEDILIES: 95091/10.

MEDILIES: 95091/10.

A HOSANG K.K., KNOKE I.I., KLAUDINY J.J., WEMPE F.F., WUTTKE W.W.,

A SCHEIT K.K.;
BIOCHEM. BIOPHYS. RES. COMMUN. 205:148-153(1994).

- I- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES. THIS PROTEIN

CAN BIND HEPARIN.

- I- SUBUNIT: MONOMER OR HOMODIMER; IN EQUILIBRIUM (BY SIMILARITY).

- STMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C.C.) (CHEMOKINE CC).

EMBL: Z48480; G683719; ...

PROSITE: PS00472: SMALL_CYTOKINES_CC; 1.

PROSITE: PS00472: SMALL_CYTOKINES_CC; 1.

STGNAL

24 99 MONOCYTE CHEMOTACTIC PROTEIN 2.

CHAIN

THOM_RES

24 24 PPRROLIDONE CARBOXYLIC ACID (BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
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-:- SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE CC).
CHOKNING CC).
EMBL: L04985; G349821; --
PROSITE; PSO0472; SMALL_CYTOKINES_CC; I.
CYTOKINE; CHEMOTAXIS; SIGNAL; INFLAMMATIORY RESPONSE; GLYCOPROTEIN.
SIGNAL
CHAIN
24 120 MONOCYTE CHEMOTACIIC PROTEIN 1.
CHAIN
MOD_RES 24 24 PYRROLIDONE CARBOXYLIC ACID (BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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-!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES, BUT NOT NEUTROPHILS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SCYAZ OR MCPI.
CAVIA PORCELLUS (GUINEA PIG).
EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; ARTIODACIYLA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
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01-NOV-1995 (REL. 32, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
MONOCYTE CHEMOTACTIC PROTEIN 1 PRECURSOR (MCP-1) (MONOCYTE
CHEMOATTRACTANT PROTEIN-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 88; DB 1; Length 120;
Pred. No. 5.44e-08;
1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 88; DB 1; LA
Pred. No. 5.44e-08;
1; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIMILARITY).
BY SIMILARITY.
BY SIMILARITY.
POTENTIAL.
; 22FAD257 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SIMILARITY).
BY SIMILARITY.
BY SIMILARITY.
B7620BCF CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   120 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120 AA; 13741 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             34 59
35 75
99 AA; 10903 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 83.3%;
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 90.7%;
Best Local Similarity 83.3%;
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN-Z; TISSUE-SPLEEN;
MEDLINE; 93267104.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 EICADPKOKWVO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 73 EVCADPOOKWVQ 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                71 EVCADPTQKWVQ 82
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                                                                            SEQUENCE FROM N.A. MEDLINE; 95091716.
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Gaps

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96 AA

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SEQUENCE OF 24-96.

STRAIN-HARTLEX; TISSUE-LUNG;

MADLINE: 94157409.

A JOSE P.J. GRIFFITHS-JOHNSON D.A., COLLINS P.D., WALSH D.T.,

A JOSE P.J. GRIFFITHS-JOHNSON D.A., COLLINS P.D., WALSH D.T.,

J. EXP. MED. 179: 1881-881.7 (1994).

TISSUE SPECIFIC THE ACCUMULATION OF EOSINOPHILS, A PROMINENT

PRATURE OF ALLERGIC INFLAMMATORY RECTIONS.

J. SUBJECTLY PROMOTES THE ACCUMULAR.

J. SUBJECTLY PROMOTES THE ACCUMULATION OF EOSINOPHILS, SMALL CYTOKINES.

J. SUBJECTLY PROMOTES THE ACCUMULATION OF EOSINOPHILS.

M. BOSINOPHILS CYTOKINE; GLYCOPROTEIN; SIGNAL;

M. NELAMMATORY RESPONSE.
TISSUE-LUNG;
MEDLINE: 95173589.
REDLINES 95.73589.
J. EXP. MED. 181:1211-1216(1995).
                                                                                                                               SECULNE; 95091818.
MEDLINE; 95091818.
JOSE P.J., ADCOCK I.M., GRIFFITHS-JOHNSON D.A., BERKMAN N., WELLS T.C., WILLIAMS T.J., POWER C.A.;
BIOCHEM. BIOPHYS. RES. COMMUN. 205:788-794(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 84; DB 1; Length 96;
Pred. No. 5.42e-07;
0; Mismatches 1; Indels
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193
10753 MW;
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Best Local Similarity .90.9%;
Matches 10; Conservative
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96 AA;
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Search completed: Tue Mar 30 17:37:56 1999 Job time: 7 secs.

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

protein · protein database search, using Smith-Waterman algorithm MPsrch\_pp

MasPar.time 4.94 Seconds 134.090 Million cell updates/sec Tue Mar 30 17:38:14 1999; Run on:

not generated. Tabular output >US-08-927-939-1 (1-12) from US08927939.pep 97 Description: Perfect Score:

1 EICADPKOKWVO 12 Sequence:

PAM 150 Gap 15 Scoring table:

180763 segs, 55169189 residues Searched:

Minimum Match 0% Listing first 45 summaries Post-processing:

sptremb18 Database:

1:sp\_archea 2:sp\_bacteria 3:sp\_fungi 4:sp\_human 5:sp\_invertebrate 6:sp\_mammal 7:sp\_mhc 8:sp\_organelle 9:sp\_phage 10:sp\_plant 11:sp\_rodent 12:sp\_unclassified 13:sp\_vertebrate 14:sp\_virus

Mean 25.510; Variance 35.092; scale 0.727 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

## 4.53e-05 5.73e-05 5.75e-04 6.75e-04 7.76e-04 7.76e-04 7.76e-05 7.76e-Pred. No WFIF-2. CC CHEMOKINE ST38 PREC CC CHEMOKINE EXODUS-CC CHEMOKINE ABCD-1. LXMPHOTACTIN PRECURSOR LD78 ALPHA BETA PRECUR CHEMOKINE EXODUS. CC CHEMOKINE EXODUS. IL-10-INDUCIBLE CHEMOK CC CHEMOKINE. B LYMPHOCYTE CHEMOATTR CX3C CHEMOKINE PRECURS MACROPHAGE-DERIVED CHE BETA CHEMOKINE EXPONS-SMALL INDUCTBLE CYTOKI RANTES PRECURSOR. INTERLEUKIN-8 (FRAGMEN FRACTALKINE, NEUROTACTIN. Description 035933 0035933 0000010188 00800093 00800093 0090404 0091884 00154864 00154864 00154864 00154864 00154864 00154864 00154864 P78423 000626 009006 009002 a Query Match Length DB Score i.

[1] SEQUENCE FROM N.A. MEDLINE; 97320499. PAN Y., CLARE L., HONG Z., DOLICH S., DEEDS J., GONZALO J., VATH J.,

1.166	RODENTIA;	VATH J.,
CHITIN SYNTHETASE I. CXC CHEMOKINE PRECURSO HYPOTHETICAL 21.4 KD P ECO O PROPEIN (FRAGMEN ORF UL154. HYPOTHETICAL PROTEIN C RIBONUCLEOSIDE REDUCTA EB1-1 LIGAND CHEMOKINE RESISTANCE GENE HOMOLO ENVELOPE GLYCOPROTEIN CODED FOR BY C. ELEGAN COMED FOR BY C. ELEGAN HYPOTHETICAL 16.6 KD P 1-AMINOCYCLOPROPANE-1- BETA GALACTOSIDASE (EC CHROMOSOME XII COSMID 03625P. ACC SYNTHASE (EC CHROMOSOME XII COSMID 03625P. ACC SYNTHASE (EC HANINOCYCLOPROPANE-1- 1-AMINOCYCLOPROPANE-1- 1-AMINOCYCLOPROPANE-1- BETA-GALACTOSIDASE (EC HILDS4 HOMOLOG (FRAGME	GNMENTS  PRI; 395 AA.  EATED) ST ANNOTATION UPDATE) ST ANNOTATION UPDATE; WUS.  D N., GILBERT D.J., JENKINS N., ENBANK/DDBJ DATA BANKS.  3997A113 CRC32; ore 81; DB 11; Length 395; ed. NO. 4.53e-05; Mismatches 0; Indels 0;	PRI; 395 AA. REATED) AST SEQUENCE UPDATE) AST ANNOTATION UPDATE) VERTEBRATA; MAMMALIA; EUTHERIA; E; MUS.
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K44448410480EE8700EE00000	CODDA OND	MARY; REL. 05, REL. 08, REL. 08, CHORDATA AE; MURIN
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POTENTIAL.
CC CHEMOKINE ST38.
053405BD CRC32;
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J. IMMUNOL. 159:1589-1593(1997).
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088430 PRELIMINARY;
088430 01-NOV-1998 (TREMBLREL. 08, CI
01-NOV-1998 (TREMBLREL. 08, LA
01-NOV-1998 (TREMBLREL. 08, LA
CC CHEMOKINE ABCD-1.
MUS MUSCULUS (MOUSE).
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28 97
97 AA; 10826 MW;
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Post Local Similarity 80.00,
8: Conservative
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| EICADPKQKWVQ 12
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Best Local Similarity
Matches 9; Conserv
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     SIGNAL
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EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
CATARRHINI; HOMINIDAE; HOMO.
GOSSELIN M., MA J., DUSSAULT B., WOOLF B., ALPERIN A., CULPEPPER J., STIERREZ-RAMOS J.C., GEARING D.; "NCULTOTACTION, a membrane-anchored chemokine upregulated in brain inflammation.";
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UTANS-SCHNEITZ U., LOREZ H., KLINKERT W.E.F., DA SILVA J.,
LESSLAUER W.:
A novel rat CC chemokine, identified by targeted differential
display, is upregulated in brain inflammation.";
J. NEUROIMMUNOL. 0:0-0(1998).
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J. EXP. MED. 0:0-0(0).
EMBL. U85768; G1916522;
PFAM; PF00048; i18: 1.
SEQUENCE 119 AA; 13119 MW; CDF526F0 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MUS MUSCULUS (MOUSE).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALLA; EUTHERIA;
RODENTIA; SCIUROGNATHI; MURIDAE; MURINAE; MUS.
                                                                                                                                                                                                                                            Length 395;
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Pred. No. 3.48e-04;
3; Mismatches 1; Indels
                                                                                                                                                                                                                                         Score 81; DB 11; Length 395
Pred. No. 4.53e-05;
2; Mismatches 0; Indels
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SUBMITTED (JUL-1998) TO EMBL/GENBANK/DDBJ DATA BANKS.
EMBL: AJ007862; E1312757; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JUL-1997 (TREMBLREL. 04, CREATED)
01-JUL-1997 (TREMBLREL. 04, LAST SEQUENCE UPDATE)
01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
MPIF-2.
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LAST ANNOTATION UPDATE)
                                                                                           NATURE 387:611-617(1997).

EMBL: AF010586: G2317698: -
MGD: MG1:10971153: SCYD1.

SEQUENCE 395 AA: 42098 MW; E3CD0612 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        119 AA
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                                                                                                                                                                                                                                         Match 83,5%;
Local Similarity 81.8%;
les 9; Conservative
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Best Local Similarity 66.7%;
Matches 8; Conservative
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| EICADPKQKWVQ 12
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ID 000175
AC 000175;
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01-JUL-1997 (TREMBLREL. 04, LAST SEQUENCE UPDATE)
01-JUL-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
BETA CHEMOKINE EXODUS-2.
HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
CATARRHINI; HOMINIDAE; HOMO.
                                                        Gaps
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HEDRICK J.A., ZLOINIK A.;
"Identification and characterization of a novel beta chemokine
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RODENTIA; SCIUROGNATHI; MURIDAE; MURINAE; MUS.
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TSSOB_LIVER;
MEDLINE: 9835531.
SCHANIEL C., PARDALI E., SALLUSTO F., SPELETAS M., RUEDL C.
  Length 97;
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Pred. No. 5.76e-04;
2; Mismatches 1; Indels
                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
NAGIRA M., IMAI T., HIESHIMA K., KUSUDA J., RIDANPAA
NISHIMURA M., KAKIZAKI M., NOMIYAMA H., YOSHIE O.;
SUBMITTED (AUG-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
EMBL; U88320; G2196920; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
HROMAS R.A., GRAY P., KLEMSZ M., FIFE K., BROXMEYER F
SUBMITTED (JUN-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
HEDRICK J.A., ZLOINIK A.;
SUBMITTED (MAY-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
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LAST ANNOTATION UPDATE)
Score 76; DB 11; 1
Pred. No. 5.76e-04;
2; Mismatches 0.
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EMBL; AB002409; D1022673; -.
PFAM: PF00048; 118; 1.
SEQUENCE 134 AA; 14646 MW; FE86A239 CRC32;
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95 AA;
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EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
SHIMIZU T., SEIDL T., ANDERSSON J., MELCHERS F., ROLINK A.G., SIDERAS P.,
Activated murine B lymphocytes and dendritic cells produce a novel CC chemokine which acts selectively on activated T cells.";
J. EXP. MED. 188.451-463(1998).
EMBL: AF057505; G3378116; -
SEQUENCE 92 AA; 10302 MW; BC7219A0 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ISHIZUKA K., IGATA-YI R., NARUSE K., NAKASHIMA H., OHUCHI K., KATSURAGI S., KIN Y., OHMOTO Y., NOMIYAMA H., IIO M., MIURA R. MIYAKAWA T.;
                                                                                                                                                                                                                                                                                                                                                                                                                  ö
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                                                                                                                                                                          LT 7
057411 PRELIMINARY; PRT; 97 AA.
057411.
01-JUN-1998 (TREMBLREL. 06, CREATED)
01-JUN-1998 (TREMBLREL. 06, LAST SEQUENCE UPDATE)
01-JUN-1998 (TREMBLREL. 06, LAST ANNOTATION UPDATE)
LYMPHOTACTIN PRECURSOR.
041-LUS (ALLUS (CHORN)).
EDKARYOTA: METACOA; CHORDATA; VERTEBRATA; ARCHOSAURIA; AVES;
                                                                                                                                                                                                                                                                                                                                                                                            Score 73; DB 13; Length 97; Pred. No. 2.56e-03; 0; Mismatches 3; Indels
                                                                                  Score 75; DB 11; Length 92; Pred. No. 9.50e-04;
                                                                                                     1; Indels
                                                                                                                                                                                                                                                                                                  TISSUE-SPLEEN;
ROSSI D.L., BAZAN J.F., ZLOTNIK A.;
ROSSI D.L., BAZAN J.F., EMBL/GENBANK/DDBJ DATA BANKS.
EMBL; AF006742; G2827882; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUBMITTED (AUG-1995) TO EMBL/GENBANK/DDBJ DATA BANKS EMBL: D63785; G961440; -. PROSITE: PSO0442; SMALL_CYTOKINES_CC; 1. PPAM: PF00048; i18: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        014745;
01-NOV-1996 (TREMBLREL. 01, CREATED)
01-NOV-1996 (TREMBLREL. 01, LAST SEQUENCE UPDATE)
01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                                                               LYMPHOTACTIN.
3290101C CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  POTENTIAL.
LD78 ALPHA BETA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3F87F1C6 CRC32;
                                                                                                     2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 80 AA
                                                                                                                                                                                                                                                                                                                                                     POTENTIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LD78 ALPHA BETA PRECURSOR (FRAGMENT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                    1 24
25 97
97 AA; 11131 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16
>80
80
8857 MW;
                                                                                Query Match
Best Local Similarity 72.7%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                            Ouery Match
Best Local Similarity 72.7%;
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATARRINI; HOMINIDAE; HOMO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                          74 DICADPROVWV 84
                                                                                                                                                                                                                                                                                                                                                                                                                                    72 ICVHPEQKWVQ 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 ICADPKQKWVQ 12
                                                                                                                                    <1
17
80
80 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
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SEQUENCE
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SIGNAL
CHAIN
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SIGNAL
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Q14745
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MEDLINE: 97275143.
HROMES R., GRAY P.W., CHANTRY D., GODISKA R., KRATHWOHL M., FIFE K.,
BELL G.I., TAKEDA J., ARONICA S., GORDON M., COOPER S., BROXMEYER H.E.,
KLEMSZ M.J.;
"Cloning and characterization of exodus, a novel beta-chemokine.";
BLOOD 89:3315-3322(1997).
EMBL: U64197; G1778717; -.
PROSITE; PSO00472; SMALL_CYTOKINES_CC; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EUKARYOTA; METAZOA; CHÓRDATA; VERTEBRATA; MAMMALIA; EUTHERIA; RODENTIA;
SCIUROGNATHI; MURIDAE; MURINAE; RATTUS.
                                                                                                                                                                                                                                                                                                                                                                                 HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
CATARRHINI; HOMINIDAE; HOMO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LESSLAUER W.;

LESSLAUER W.;

A novel rat Cc chemokine, identified by targeted differential display, is upregulated in brain inflammation.";

J. NEUROIMMUNOL. 0:0-0(1998).

EMBL; U90447; G1899246;

EMBL; AF053312; G3551817;

SIGNAL.
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STRAIN-FISHER 344; TISSUE-BRAIN;
UTANS-SCHNEITZ U., LOREZ H., KLINKERT W.E.F., DA SILVA J.,
Length 96;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN-SPRAGUE-DAWLEY;
KELNER G.S., MACIEJEWSKI-LENOIR D., LEE E.D., MAKI R.A.;
SUBMITTED (FEB-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 72; DB 4; Length 95; Pred. No. 4.19e-03; 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                       CREATED)
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 10
10 P97884
AC P97884
D1 0197884
D1 01-MAY-1997 (TREMBLREL. 03, CREATED)
D1 01-MAY-1997 (TREMBLREL. 03, LAST SEQUENCE UPDATE)
D1 01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
D2 CC CHEMOKINE EXODUS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10691 MW; 1526B4C0 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10875 MW; 3FC09DD8 CRC32;
                                                                                                                                                                                                                                               95 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74.2%; Score 72;
                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                                        099664 PRELIMINARY;
099664;
01-MAY-1997 (TREMBLREL. 03,
01-MAY-1997 (TREMBLREL. 03,
01-NOV-1998 (TREMBLREL. 08,
              Query Match

Best Local Similarity 58.3%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 70.0%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RATTUS NORVEGICUS (RAT)
                                                                                                                                       1 EICADPKQKWVQ 12
                                                                                                          65 QVCADPSEEWVQ 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                72 VCANPKQTWV 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 ICADPKOKWV 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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US-08-927-939-1.rspt

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01-JUN-1998 (TREMBLREL, 06, 01-JUN-1998 (TREMBLREL, 06, 01-NOV-1998 (TREMBLREL, 08, RANTES PRECURSOR.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 23
24 91
91 AA; 9990 MW;
                                                                                                                                                                                                71.1%;
Similarity 63.6%;
7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EUKARYOTA; METAZOA; CHORDAT/
CATARRHINI; HOMINIDAE; HOMO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 70.1%;
50.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HOMO SAPIENS (HUMAN).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                71 OVCANPEKKWVR 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 EICADPKQKWVQ 12
                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 7; Conser
                                                                                                                                                                                                                                                                                                                        72 EFCSDPKLRWV 82
                                                                                                                                                                                                                                                                                                                                                      |:|:||| :||
| EICADPKOKWV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 6; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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062812
062812;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LT 13
043646
043646;
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                                                                                                                                                                                                                        LT 11
015467.
015467.
015467.
01-348-1998 (TREMBLREL. 05, CREATED)
01-JAN-1998 (TREMBLREL. 06, LAST SEQUENCE UPDATE)
01-NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
11-10·INDUCIBLE CHEMOKINE.
11-10·INDUCIBLE CHEMOKINE.
11-10·INDUCIBLE CHEMOKINE.
11-10·INDUCIBLE CHEMOKINE.
11-10·INDUCIBLE CHEMOKINE.
12-10·INDUCIBLE CHEMOKINE.
13-10·INDUCIBLE CHEMOKINE.
14-10·INDUCIBLE CHEMOKINE.
15-10·INDUCIBLE CHEMOKINE.
16-10·INDUCIBLE CHEMOKINE.
16-10·INDUCIBLE CHEMOKINE.
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MEDLINE: 98308096.

A YOUN B.S., ZHANG S., BROXMEYER H.E., ANTOL K., FRASER M.J. JR.,
A YOUN B.S., ZHANG S., BROXMEYER H.E., ANTOL K., FRASER M.J. JR.,
HANGOC G., KWON B.S.;
I Isolation and characterization of LMC, a novel lymphocyte and
monocyte chemoattractant human CC chemokine, with myelosuppressive
for activity.

EMBL: BIOCHEM. BIOPHYS. RES. COMMUN. 247:217-222(1998).

EMBL: AB0074545; 10374963; -..

EMBL: AR088129; G3179365; -..

EMBL: AF088129; G3179365; -..

EMBL: AF088129; G3395776; -..

EMBL: AF088129; G3395776; -..

EMBL: AF088129; G3395776; -..
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093238
091238:
01.NOV-1998 (TREMBLREL. 08, CREATED)
01.NOV-1998 (TREMBLREL. 08, LAST SEQUENCE UPDATE)
01.NOV-1998 (TREMBLREL. 08, LAST ANNOTATION UPDATE)
CC CHEMOKINE-1.
CYPRINUS CARPIO (COMMON CARP).
EUNARYORA: METAZOA: CHORDATA: CAPRINOPTERYGII; NEOPTERYGII;
CYPRINIDAE; CYPRININAE; CYPRINIS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NOMIYAMA H.;
"Structure of a region of 181 kb containing five CC chemokine genes.";
SUBMITIED (AUG-1998) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SHOUDAI K., HIESHIMA K., FUKUDA S., IIO M., MIURA R., IMAI T., YOSHIE. O., NOMIYAMA H.;
BIOCHIM. BIOPHYS. ACTA 0:0-0(1998).
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Pred. No. 1.11e-02;
5; Mismatches 1; Indels
   red. No. 4.19e-03;
1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. HELMS A., GORMAN D., ZLOTNIK A.; HEDRICK J.A., HELMS A., GORMAN D., ZLOTNIK A.; SUBMITTED (NOV-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120 AA; 13600 MW; A079DF66 CRC32;
      Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 72.2%;
Best Local Similarity 50.0%;
Matches 6; Conservative
Best Local Similarity 80.0%;
Matches 8; Conservative
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| EICADPKQKWVQ 12
                                                                                    73 VCADPKQIWV 82
                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
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CHORDATA; VERTEBRATA; MAMMALIA; EUTHERIA; PRIMATES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.

NOMIYAMA H.;

NOMITADA H.;

"Structure of a region of 181 kb containing five CC chemokine genes.";

SUBMITTED (AUG-1998) TO EMBL/GENBANK/DDBJ DATA BANKS.

EMBL; AF043341; G2905532. ...

EMBL; AF043341; G3719366; ...

PROSITE; PS00472: SMALL_CYTOKINES_CC; 1.
                                                                                                                                                                                                                            Gaps
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PERISSODACTYLA; EQUIDAE; EQUUS.
FUJIKI K., NAKAO M., SHIN D., YANO T.;
"CDNA cloning of a carp CC chemokine homologous to mammalian ectaxins.";
EMBLISS.";
EMBL/GENBANK/DDBJ DATA BANKS.
EMBL, AB010469; D1033417; -..
SEQUENCE 101 AA; 11266 MW; 9CFBD540 CRC32;
                                                                                                                                                                      Score 69; DB 13; Length 101;
Pred. No. 1.79e-02;
3; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 68; DB 4; Length 91; Pred. No. 2.89e-02;
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TISSUE-BRONCHOALVEOLAR TISSUE;
FRANCHINI M.;
FRANCHINI M.;
EMBLTTED (APR-1998) TO EMBL/GENBANK/DDBJ DATA BANKS.
EMBL: AF062377; G3126973; -.
NON_TER
97
97
SEQUENCE 97 AA; 10742 MW; 00396FBF CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JANG J.S., KIM B.E.;
SUBMITTED (JAN-1998) TO EMBL/GENBANK/DDBJ DATA BANKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CREATED)
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
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LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RANTES.
CF404FAD CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                          91 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
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MEDLINE; 97296220.
NEIPEL F., ALBRECHT J.C., FLECKENSTEIN B.;
"Cell-homologous genes in the Kaposi's sarcoma-associated rhadinovirus human herpesvirus 8: determinants of its pathogenicity?";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
MEDLINE; 97121480.
RUSSO J.J., BOHENZKY R.A., CHIEN M.C., CHEN J., YAN M., MADDALENA D.,
PARRY J.P., PERUZZI D., EDELMAN I.S., CHANG Y., MOORE P.S.;
"Nucleotide sequence of the Kaposi sarcoma-associated herpesvirus
(HHV8).";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
RUSSO J.J., BOHENZKY R.A., CHIEN M.C., CHEN J., YAN M., MADDALENA D.,
PARRY J.P., PERUZZI D., EDELMAN I.S., CHANG Y., MOORE P.S.;
SUBMITTED (MAY-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
RUSSO J.J., BOHENZYR R.A., CHIEN M.C., CHEN J., YAN M., MADDALENA D.,
PARKY J.P., PERUZZI D., EDELMAN I.S., CHANG Y., MOORE P.S.;
SUBMITTED (OCT-1996) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
NICHOLAS J., RUVOLO V.R., BURNS W.H., SANDFORD G., WAN X., CIUFO D.,
HENDRICKSON S., GUO H.G., HAYWARD G.S., REITZ M.S.;
SUBMITTED (NOV-1996) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE: 97094384.
MOORE P.S., BASHOFF C., WEISS R.A., CHANG Y.;
MOIECULER mimicry of human cytokine and cytokine response pathway genes by KSHV.:
SCIENCE 274:1739-1744(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
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69.1%; Score 67; DB 14; Length 95;
Best Local Similarity 58.3%; Pred. No. 4.65e-02;
Matches 7; Conservative 3; Mismatches 2; Indels
                                                                                 3; Indels
Score 68; DB 6; Length 97; Pred. No. 2.89e-02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
SUN R., LIN S.-F., MILLER G.;
SUBMITTED (SEP-1996) TO EMBL/GENBANK/DDBJ DATA BANKS.
EMBL: U74589; G1718266; -
EMBL: U74585; G1658273; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KAPOSI'S SARCOMA-ASSOCIATED HERPESVIRUS.
VIRUSES: DSDNA VIRUSES, NO RNA STAGE; HERPESVIRIDAE;
GAMMAHERPESVIRINAE; RHADINOVIRUS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   098158; 012569; 01518197; 015181997; 016181997; 016181997; 017ERBHEREL: 04, LAST SEQUENCE UPDATE) 01-NOV-1998 (TREMBLREL: 08, LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ROC. NATL. ACAD. SCI. U.S.A. 93:14862-14867(1996).
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                                                                                 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                 95 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL: U74585; G1658273; -.
EMBL: U93872; G2246546; -.
EMBL: U11366; G3551763; -.
PFAM: PF000048; il8; 1.
HYPOTHETICAL PROTEIN.
SCOUENCE 95 AA: 10485 MW;
Ouery Match
Best Local Similarity 58.3%;
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                               75 EVCLNPHTKWVQ 86
                                                                                                                                                                                                                   1 EICADPKOKWVO 12
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                                                                                                                                                                                                                                                                                                                                                                     RESULT 15
1D 098158
07 098158
DT 01-FEB-
DT 01-NOV-
DE ORF K6.
0S KAPOSI,
0C VIRUSES
0C GAMMAHE
RN [1]
RN ESCUENC
RY MEDLINE
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Search completed: Tue Mar 30 17:39:03 1999 Job time: 49 secs.